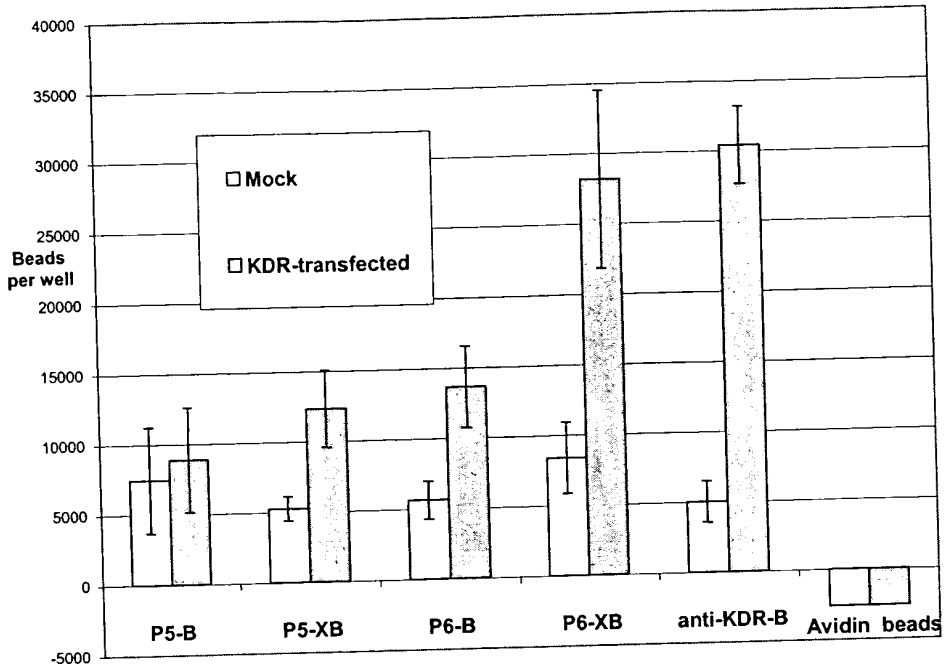

40000
35000
30000
25000
20000
15000
10000
5000
0
-5000
Beads per well
Mock
KDR-transfected
P5-B
P5-XB
P6-B
P6-XB
anti-KDR-B
Avidin beads

FIG. 1

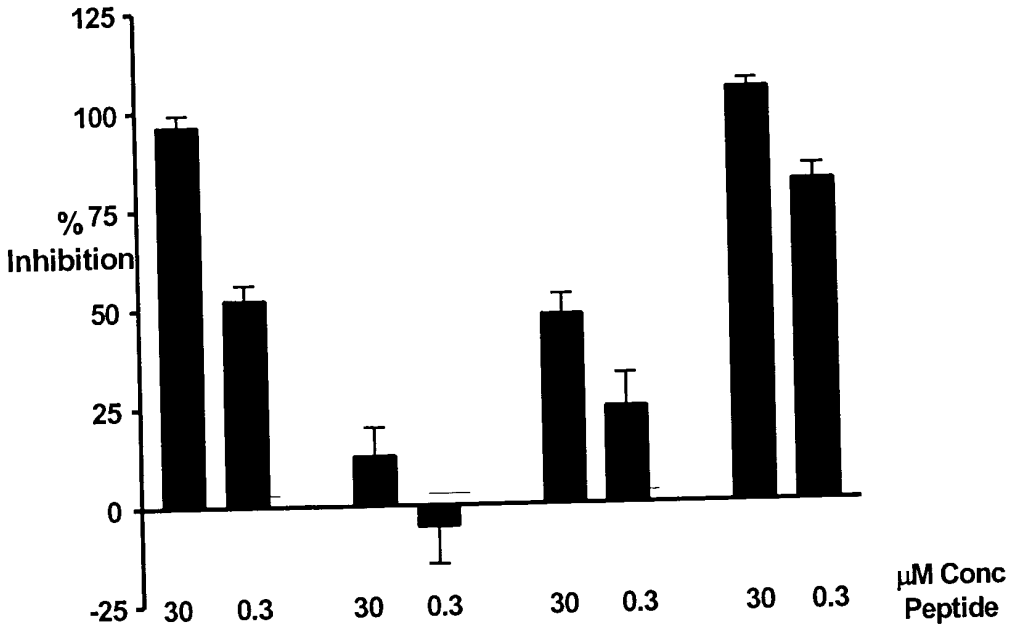

125
100
% 75
Inhibition
50
25
0
-25
30
0.3
30
0.3
30
0.3
30
0.3
µM Conc
Peptide

FIG. 2

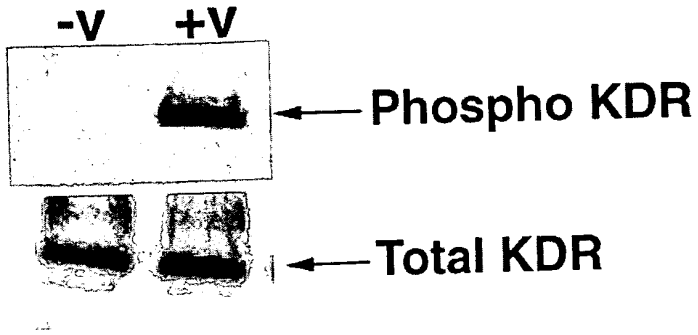


FIG. 3

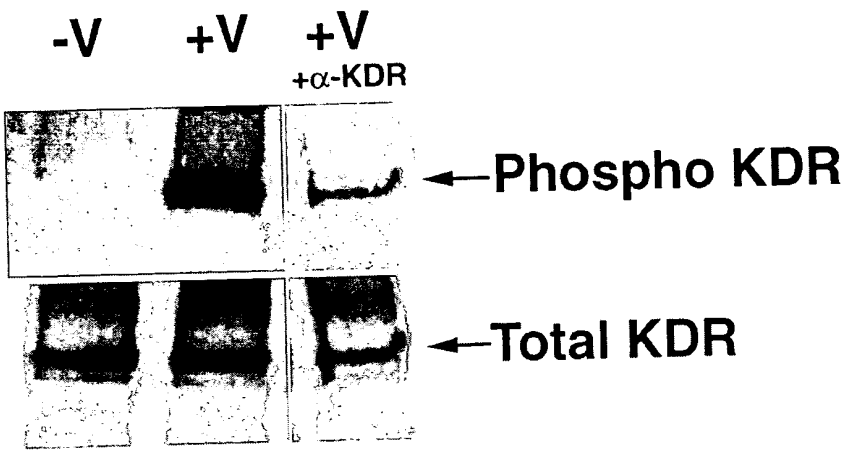


FIG. 4

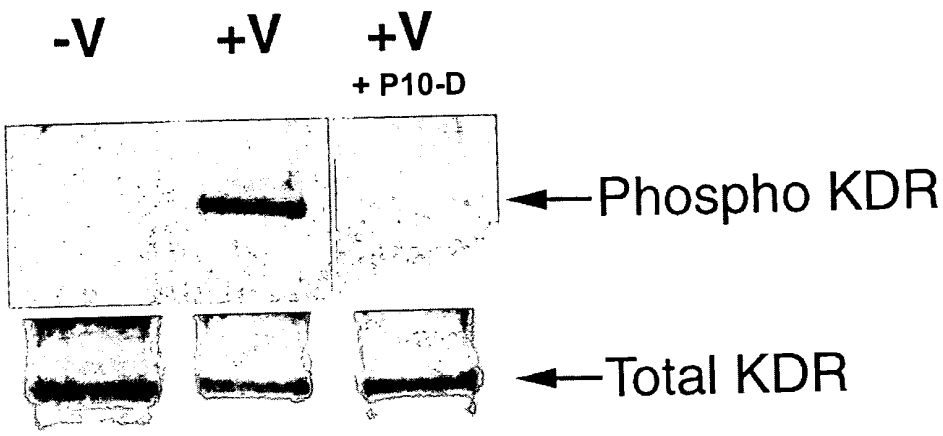


FIG. 5

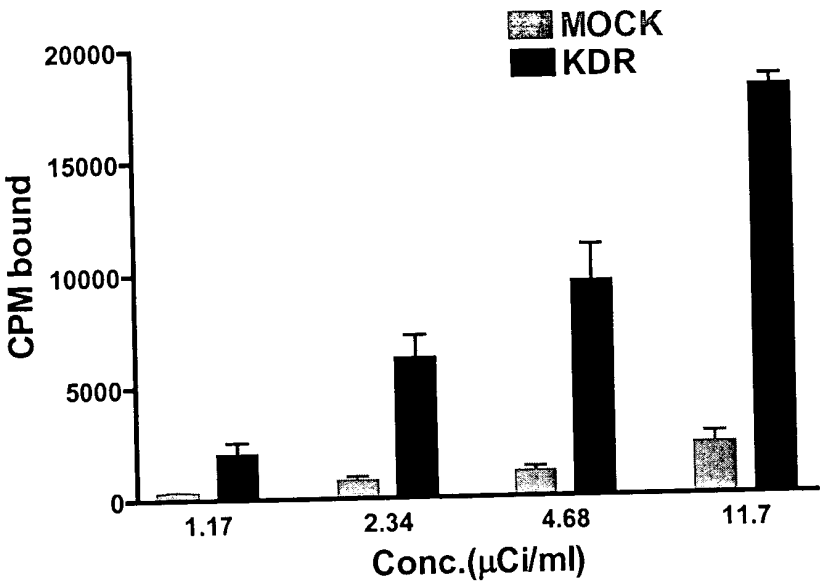

MOCK
KDR
20000
15000
10000
5000
0
CPM bound
1.17
2.34
4.68
11.7
Conc.(μCi/ml)

FIG. 6

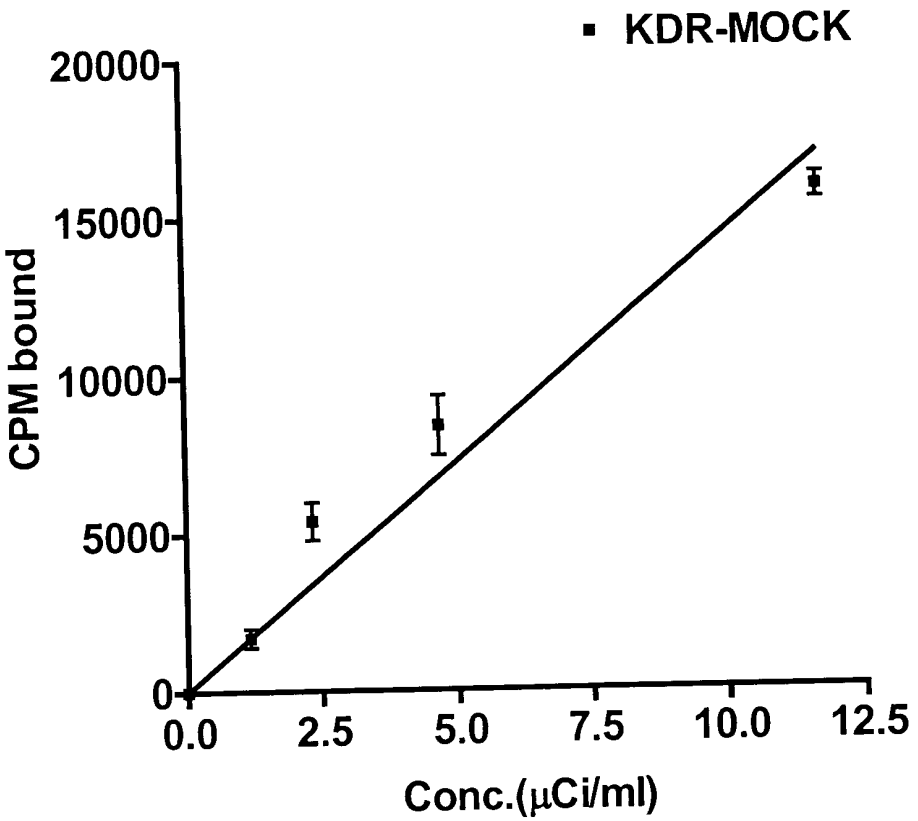

KDR-MOCK
20000
15000
10000
5000
0
CPM bound
0.0
2.5
5.0
7.5
10.0
12.5
Conc.(μCi/ml)

FIG. 7

(A)

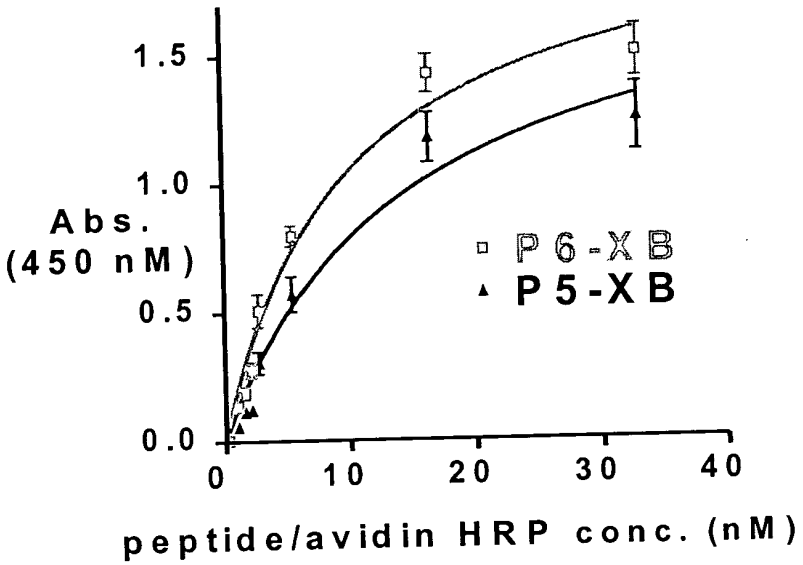

1.5
1.0
Abs.
(450 nM)
0.5
0.0
0
10
20
30
40
P6-XB
P5-XB
peptide/avidin HRP conc. (nM)

FIG. 8

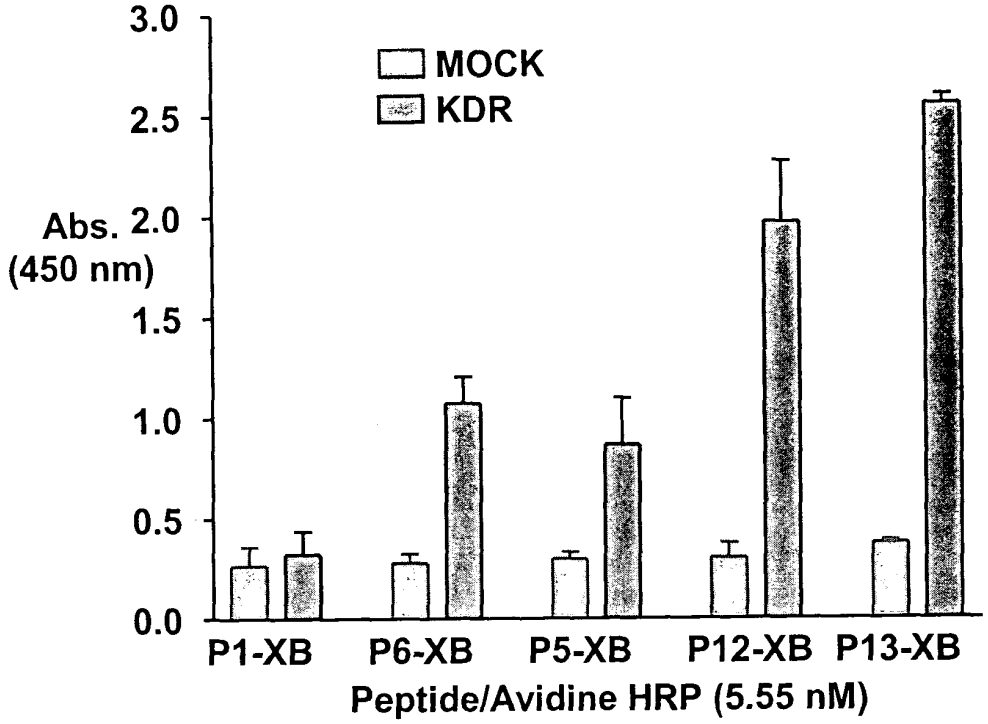

3.0
2.5
2.0
1.5
1.0
0.5
0.0
Abs. (450 nm)
MOCK
KDR
P1-XB
P6-XB
P5-XB
P12-XB
P13-XB
Peptide/Avidine HRP (5.55 nM)

FIG. 9

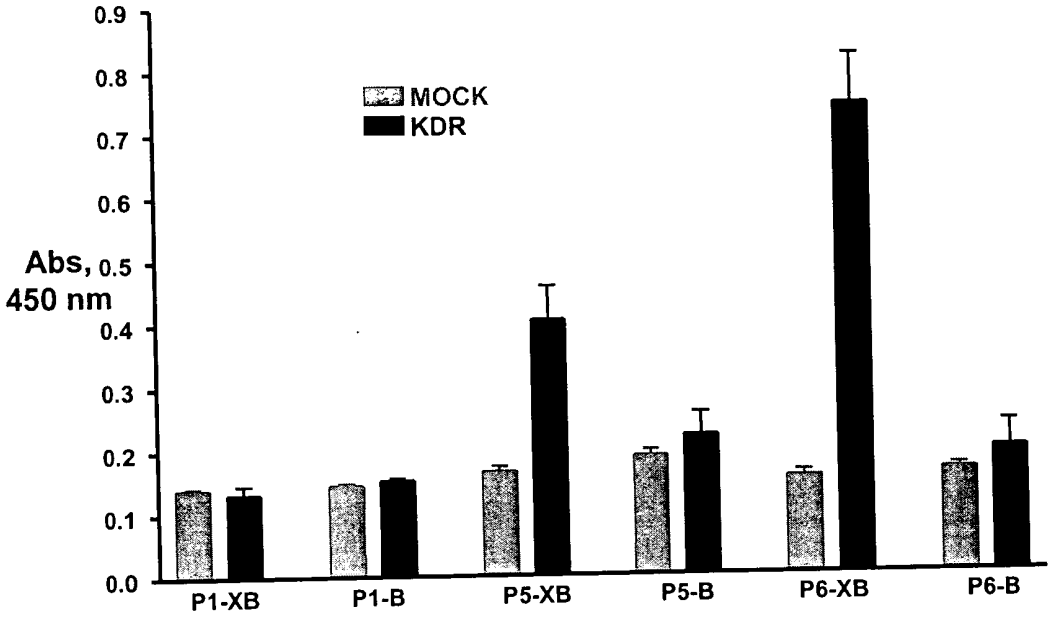

0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Abs, 450 nm
MOCK
KDR
P1-XB
P1-B
P5-XB
P5-B
P6-XB
P6-B

FIG. 10

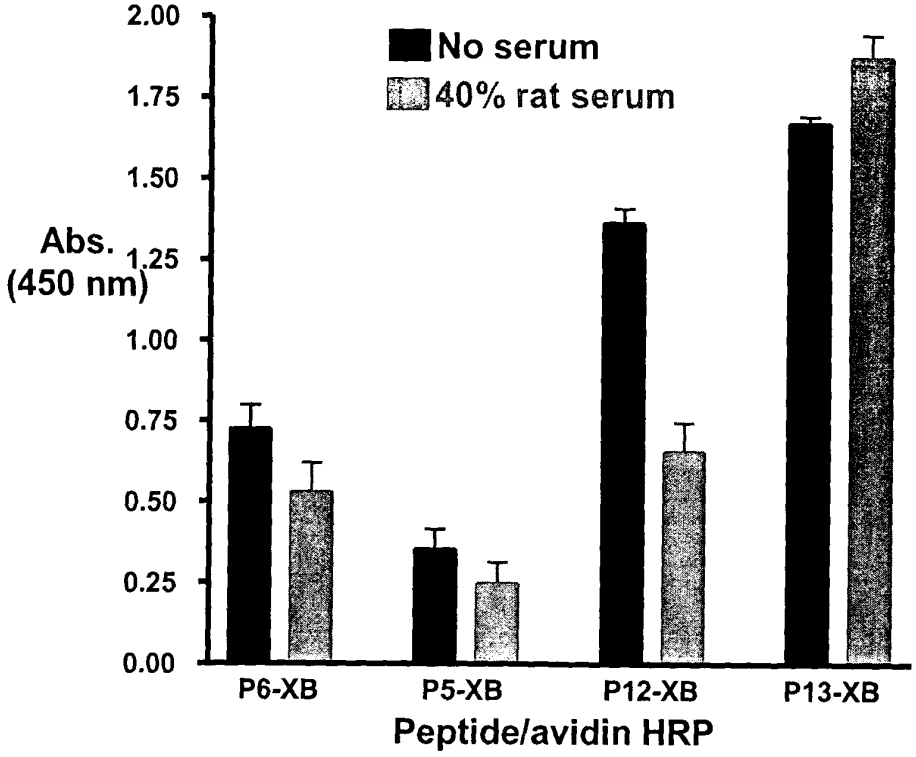

2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
Abs. (450 nm)
No serum
40% rat serum
P6-XB
P5-XB
P12-XB
P13-XB
Peptide/avidin HRP

FIG. 11

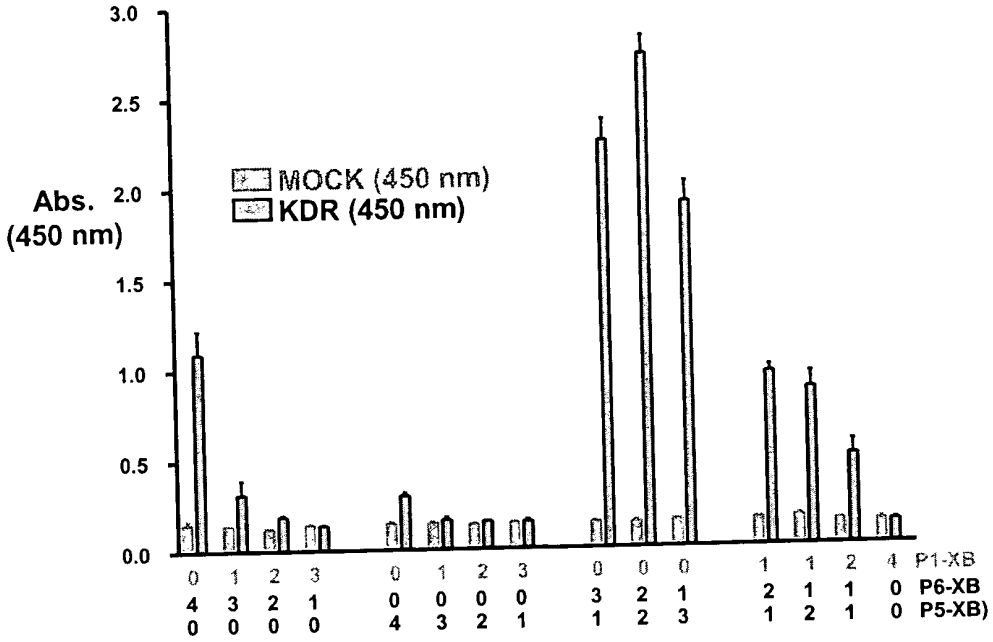

3.0
2.5
2.0
1.5
1.0
0.5
0.0
Abs.
(450 nm)
MOCK (450 nm)
KDR (450 nm)
0 1 2 3 0 1 2 3 0 0 0 1 1 2 4 P1-XB
4 3 2 1 0 0 0 0 3 2 1 2 1 1 0 P6-XB
0 0 0 0 4 3 2 1 1 2 3 1 2 1 0 P5-XB)

FIG. 12

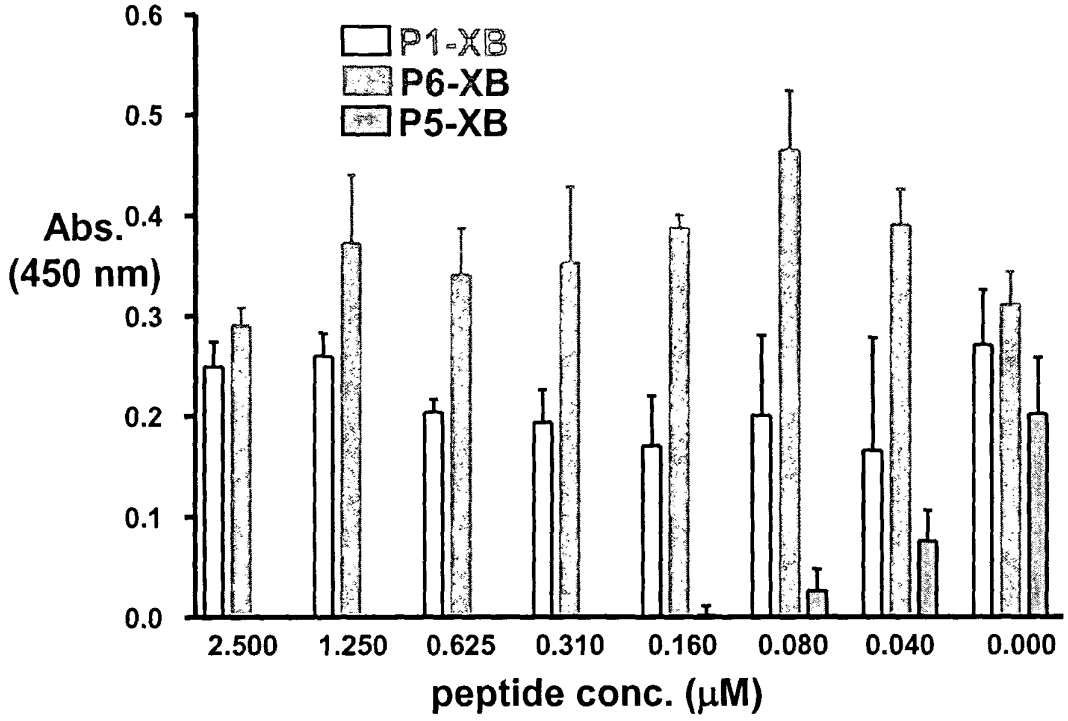

P1-XB
P6-XB
P5-XB
Abs. (450 nm)
0.6
0.5
0.4
0.3
0.2
0.1
0.0
2.500
1.250
0.625
0.310
0.160
0.080
0.040
0.000
peptide conc. (μM)

FIG. 13

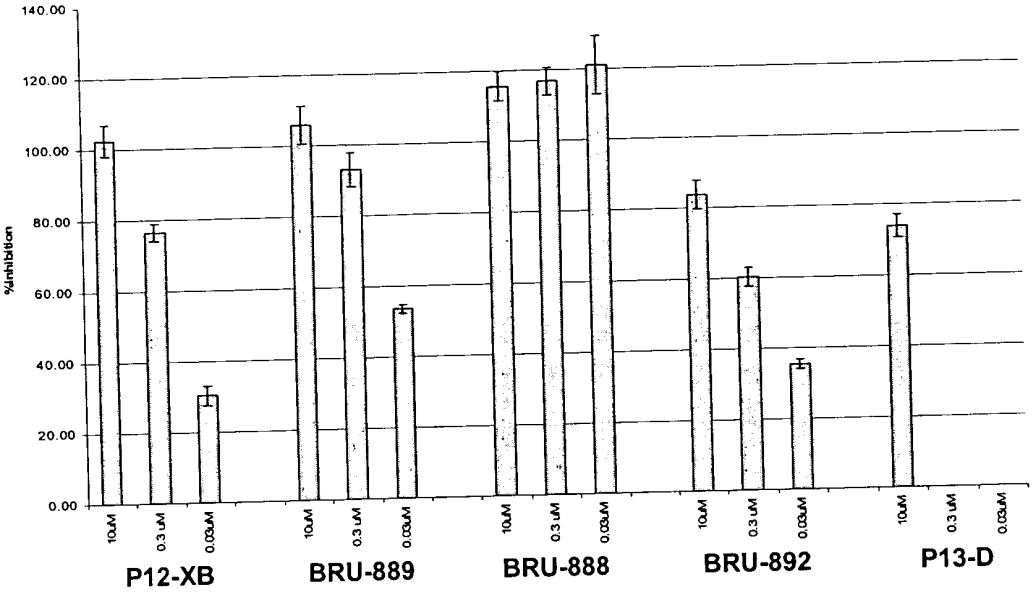

140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
%Inhibition
10uM
0.3 uM
0.03uM
P12-XB
BRU-889
BRU-888
BRU-892
P13-D

FIG. 14

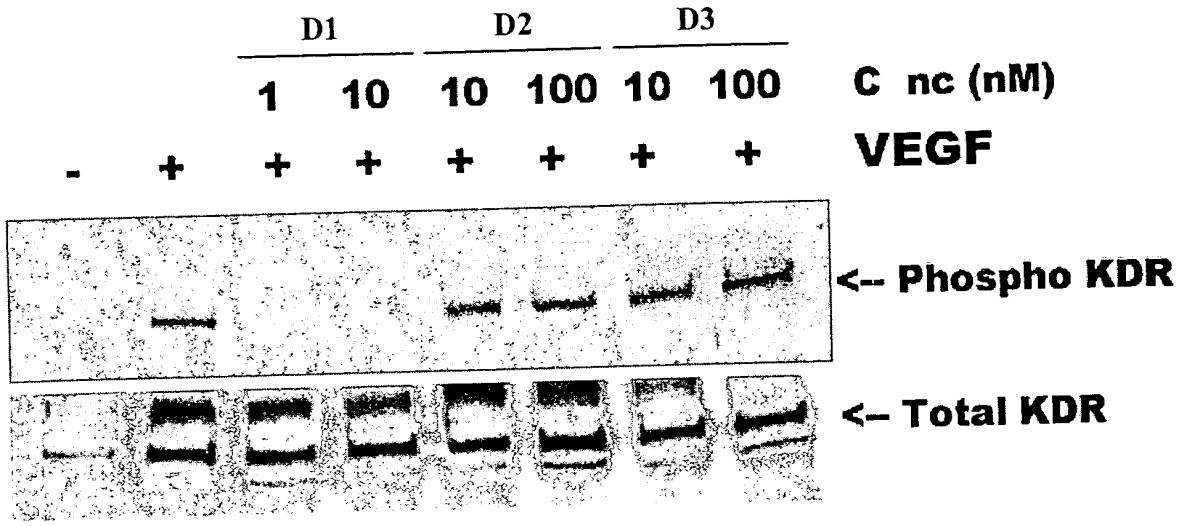


FIG. 15

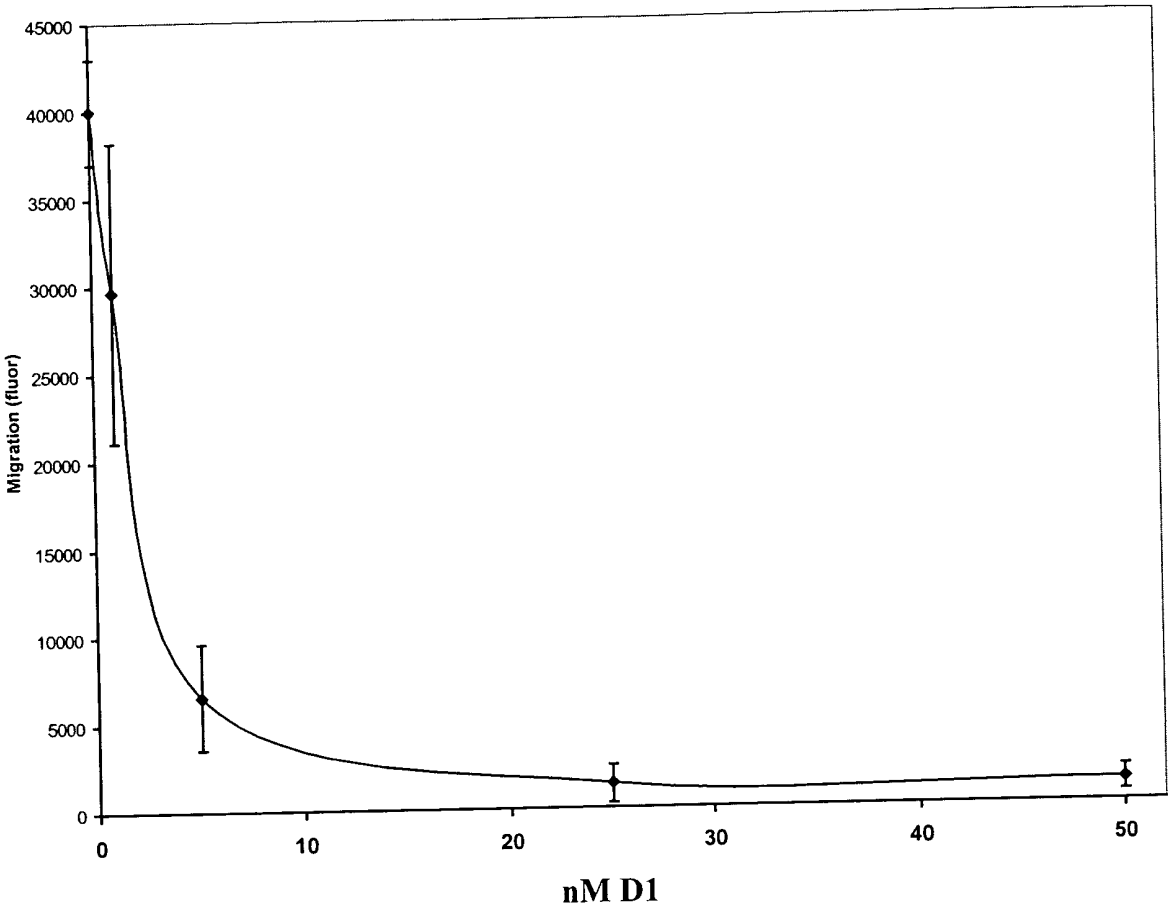

45000
40000
35000
30000
25000
20000
15000
10000
5000
0
Migration (fluor)
0
10
20
30
40
50
nM D1

FIG. 16

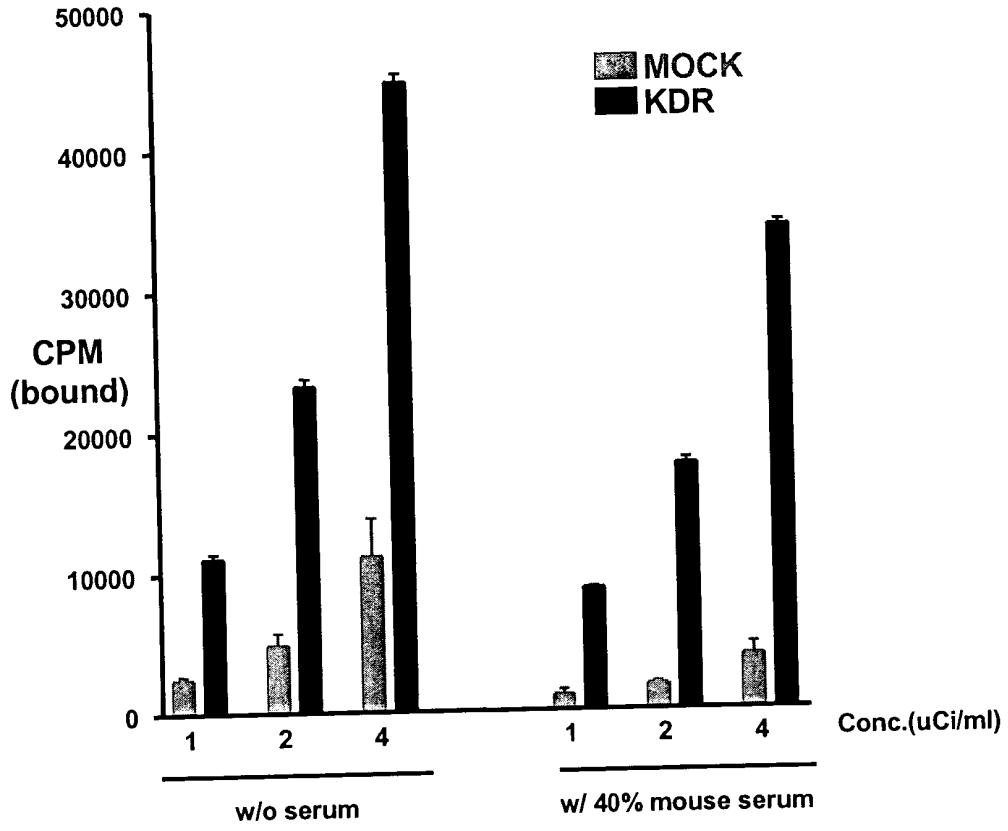

50000
40000
30000
CPM
(bound)
20000
10000
0
MOCK
KDR
1
2
4
1
2
4
Conc.(uCi/ml)
w/o serum
w/ 40% mouse serum

FIG. 17

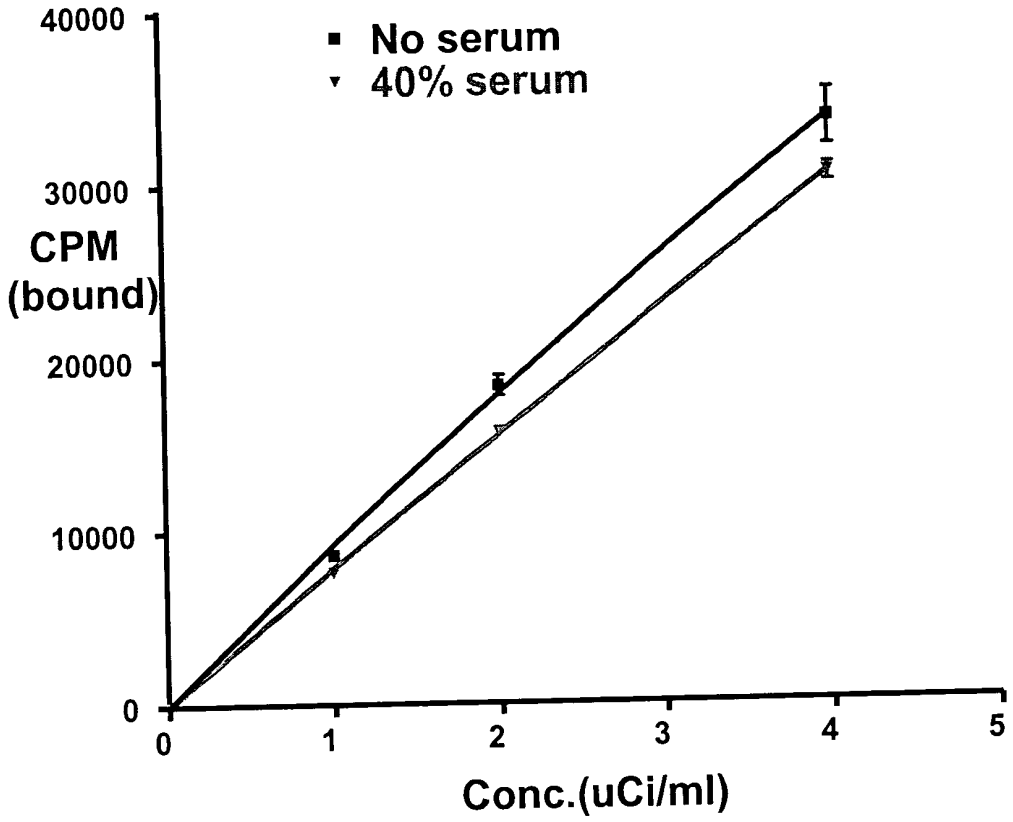

40000
30000
20000
10000
0
CPM
(bound)
No serum
40% serum
0
1
2
3
4
5
Conc.(uCi/ml)

FIG. 18

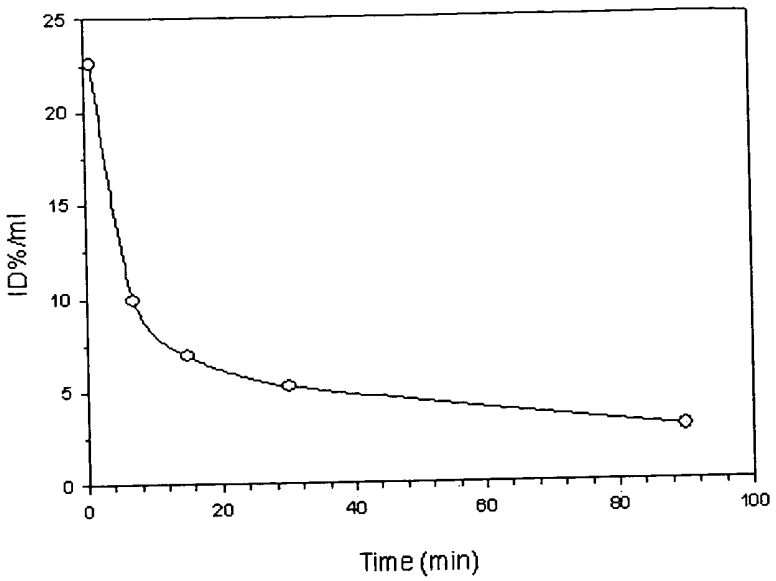


FIG. 19

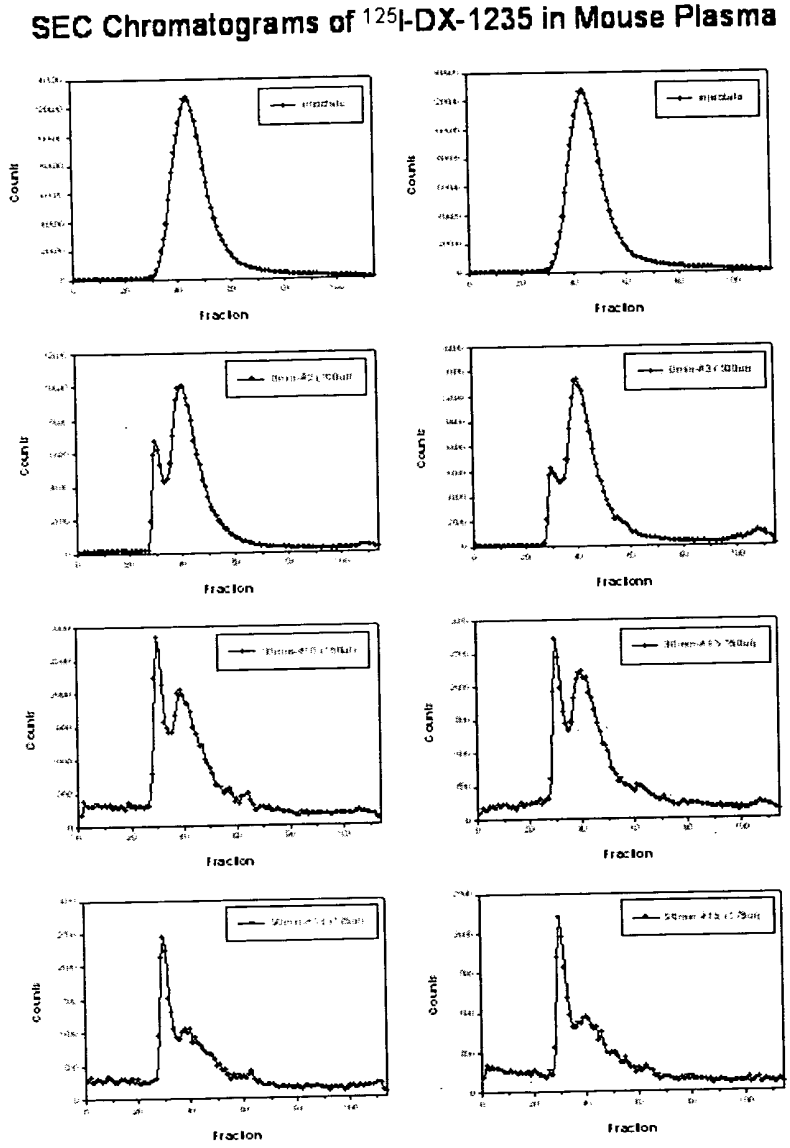

SEC Chromatograms of 125I-DX-1235 in Mouse Plasma
Count
Fraction

FIG. 20

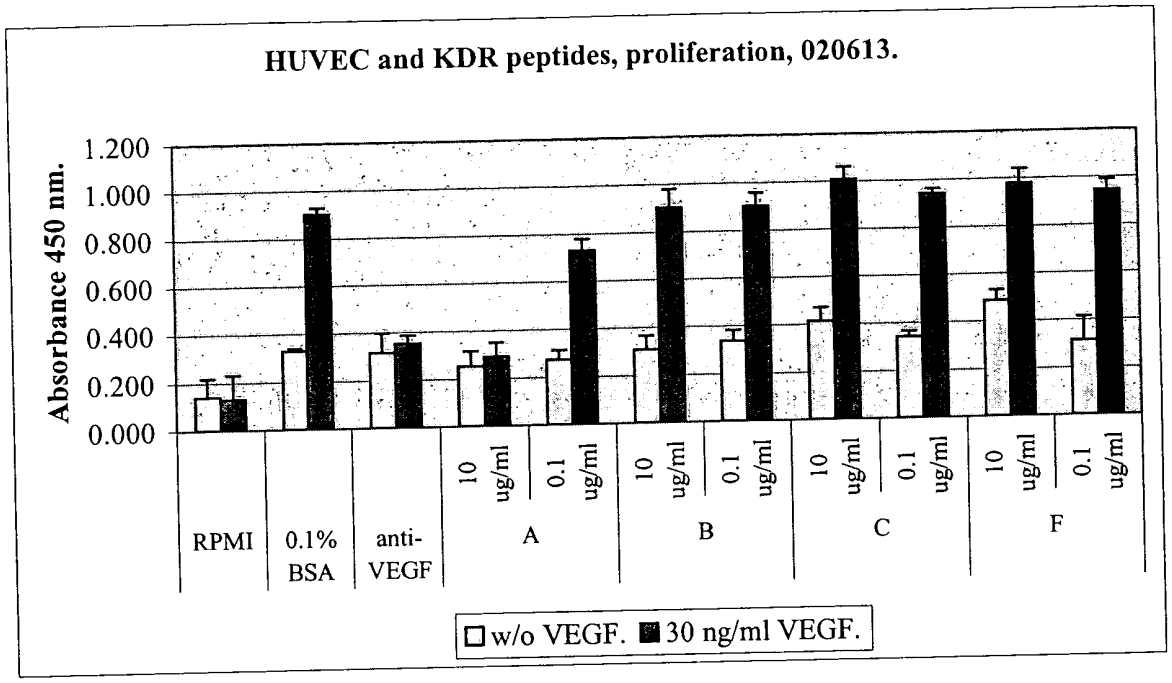

HUVEC and KDR peptides, proliferation, 020613.
Absorbance 450 nm.
1.200
1.000
0.800
0.600
0.400
0.200
0.000
RPMI
0.1% BSA
anti-VEGF
10 ug/ml
0.1 ug/ml
A
B
C
F
w/o VEGF.
30 ng/ml VEGF.

FIG. 21

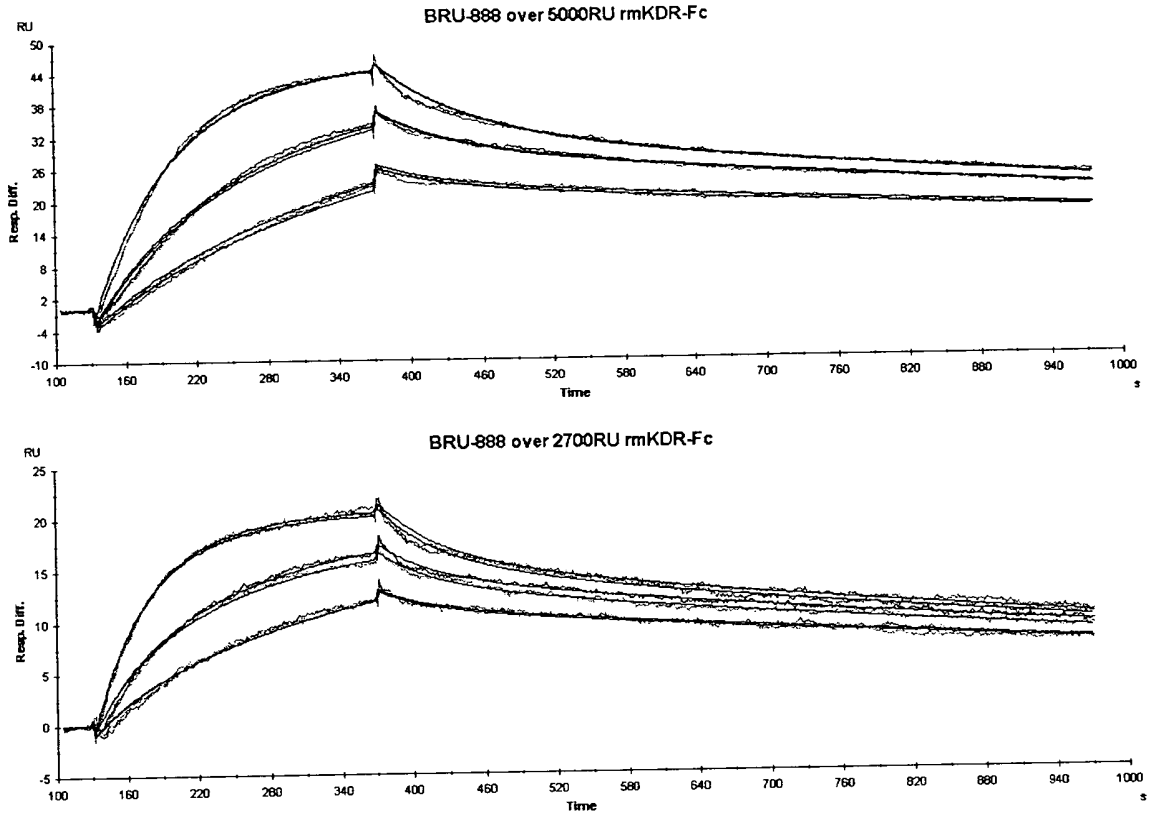

BRU-888 over 5000RU rmKDR-Fc
RU
Resp. Diff.
Time
BRU-888 over 2700RU rmKDR-Fc
RU
Resp. Diff.
Time

FIG. 22

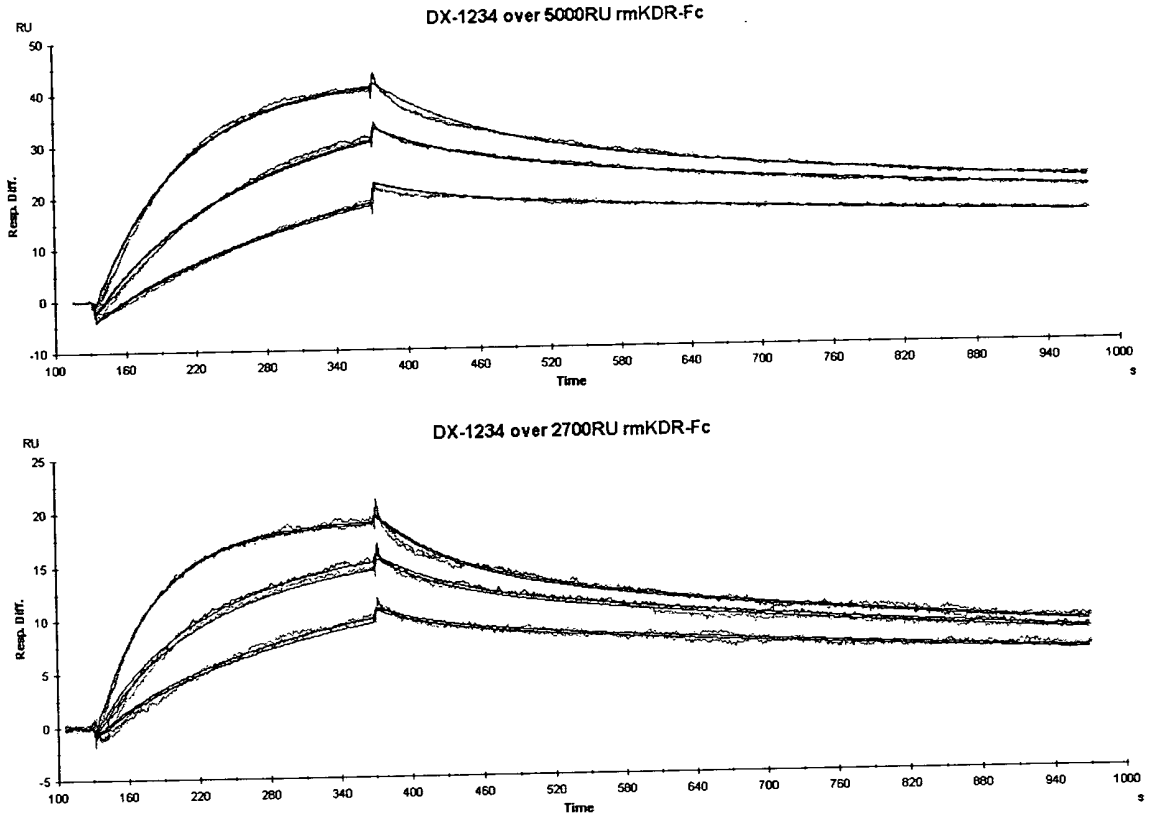

DX-1234 over 5000RU rmKDR-Fc
RU
Resp. Diff.
Time
s
DX-1234 over 2700RU rmKDR-Fc
RU
Resp. Diff.
Time
s

FIG. 23

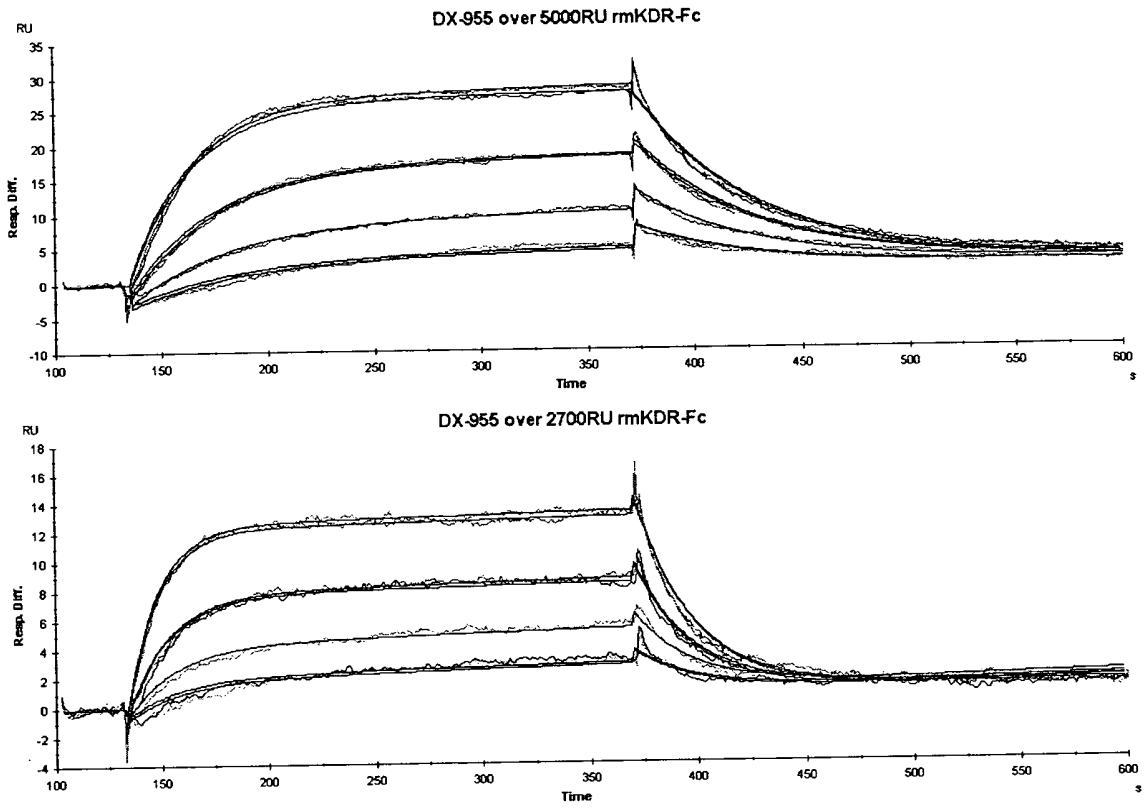

DX-955 over 5000RU rmKDR-Fc
RU
Resp. Diff.
Time
s
DX-955 over 2700RU rmKDR-Fc
RU
Resp. Diff.
Time
s

FIG. 24

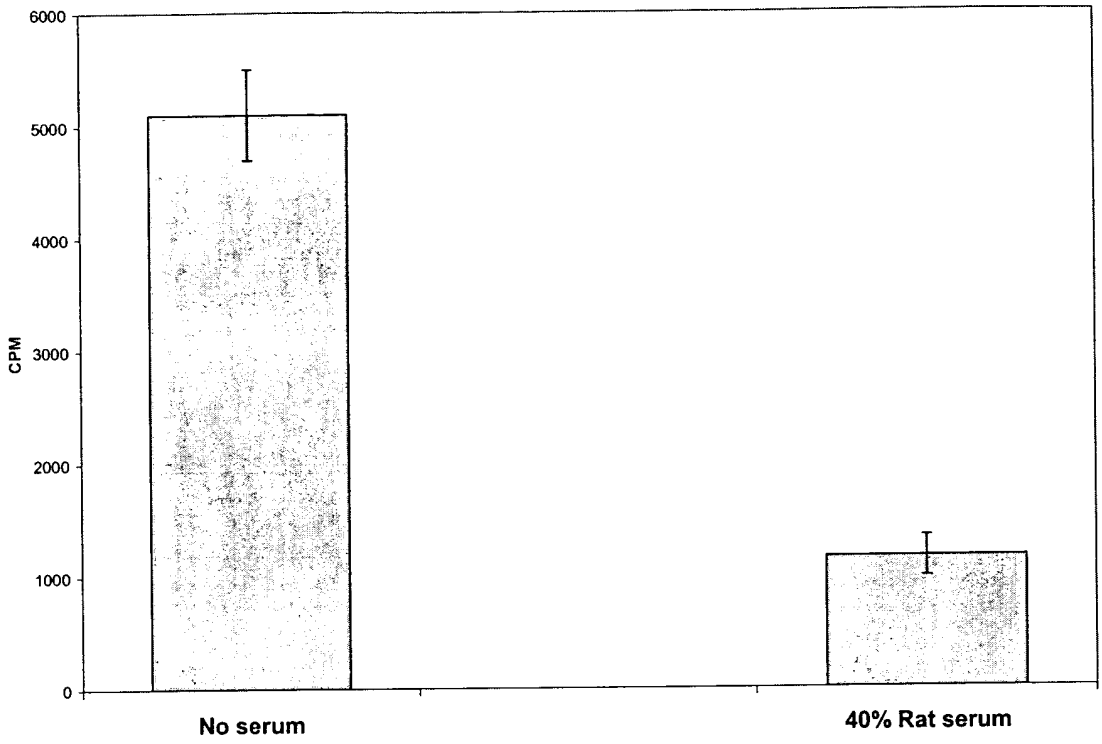


FIG 25

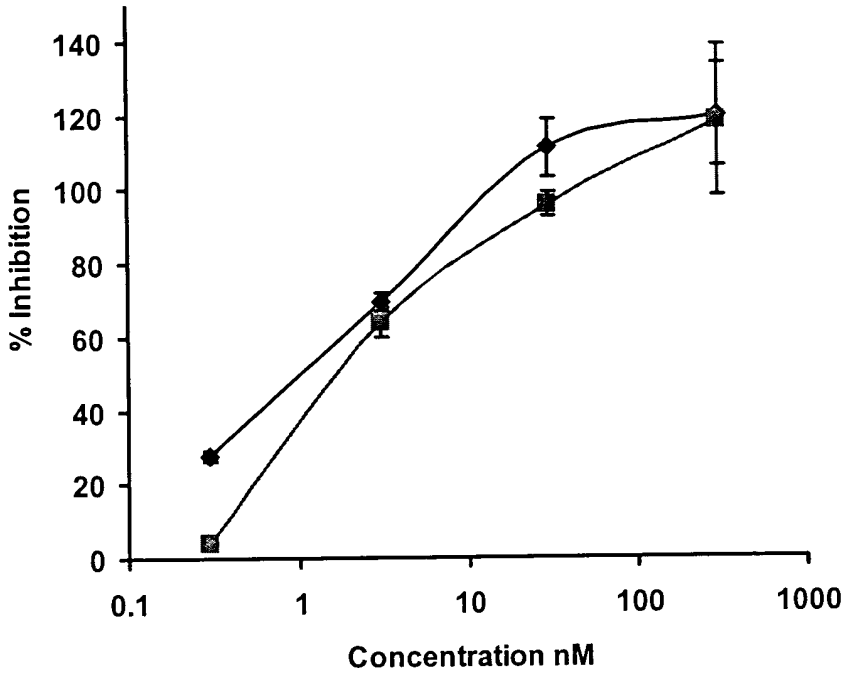

140
120
100
80
60
40
20
0
% Inhibition
0.1
1
10
100
1000
Concentration nM

FIG. 26

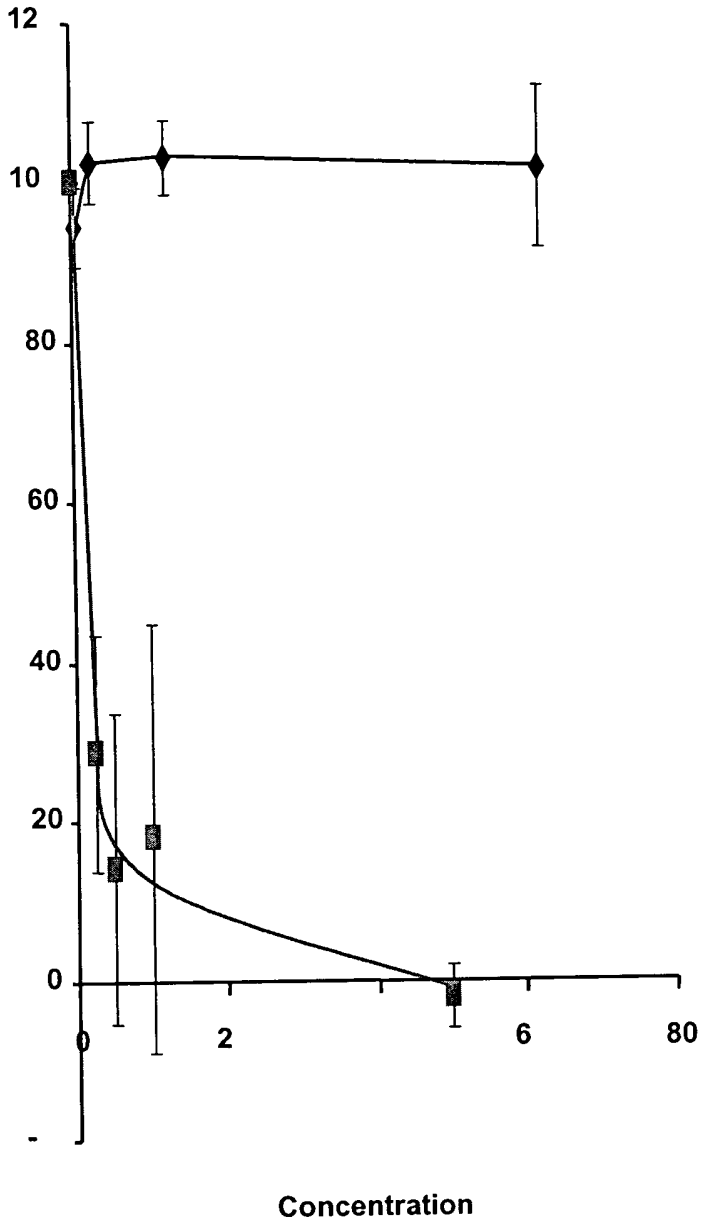


FIG. 27

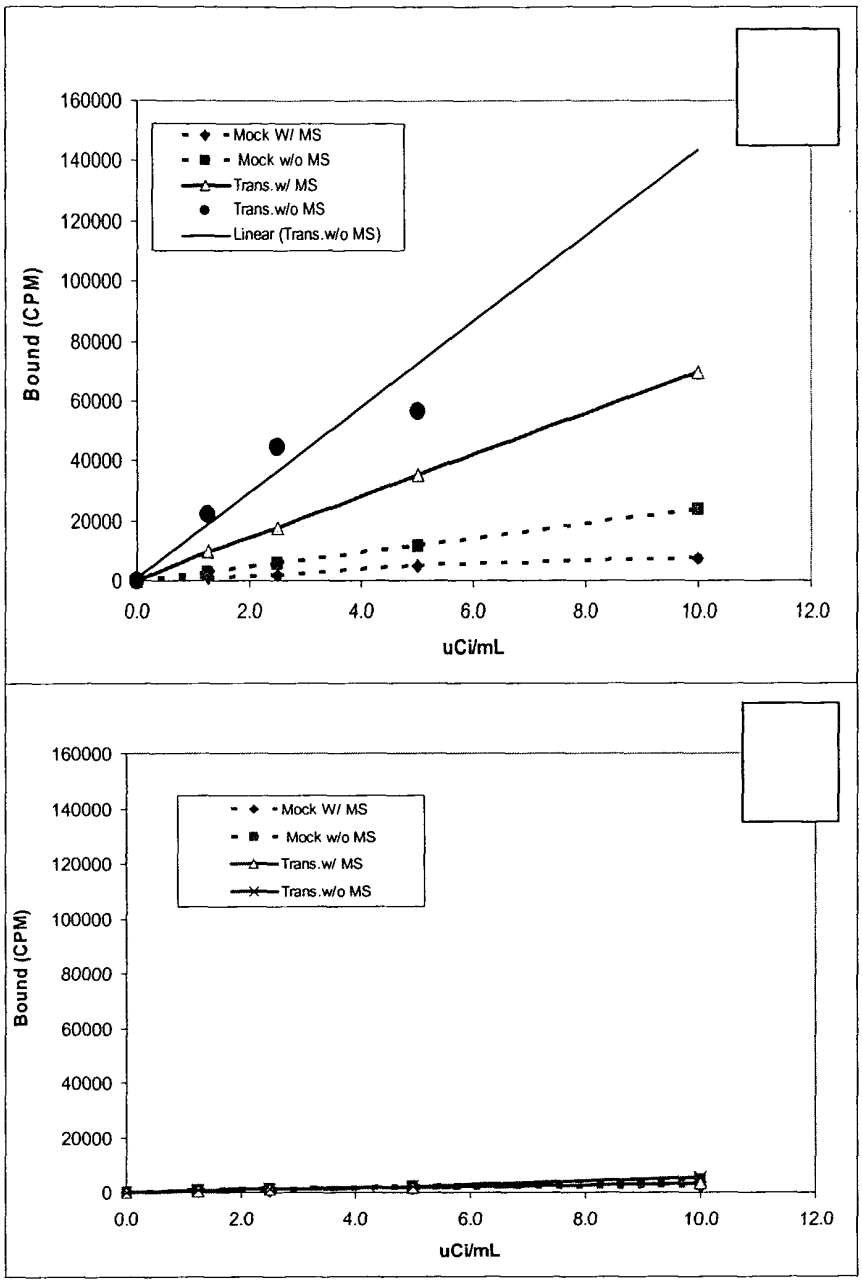

160000
140000
120000
100000
80000
60000
40000
20000
0
Bound (CPM)
Mock W/ MS
Mock w/o MS
Trans.w/ MS
Trans.w/o MS
Linear (Trans.w/o MS)
0.0
2.0
4.0
6.0
8.0
10.0
12.0
uCi/mL
160000
140000
120000
100000
80000
60000
40000
20000
0
Bound (CPM)
Mock W/ MS
Mock w/o MS
Trans.w/ MS
Trans.w/o MS
0.0
2.0
4.0
6.0
8.0
10.0
12.0
uCi/mL

FIG. 28

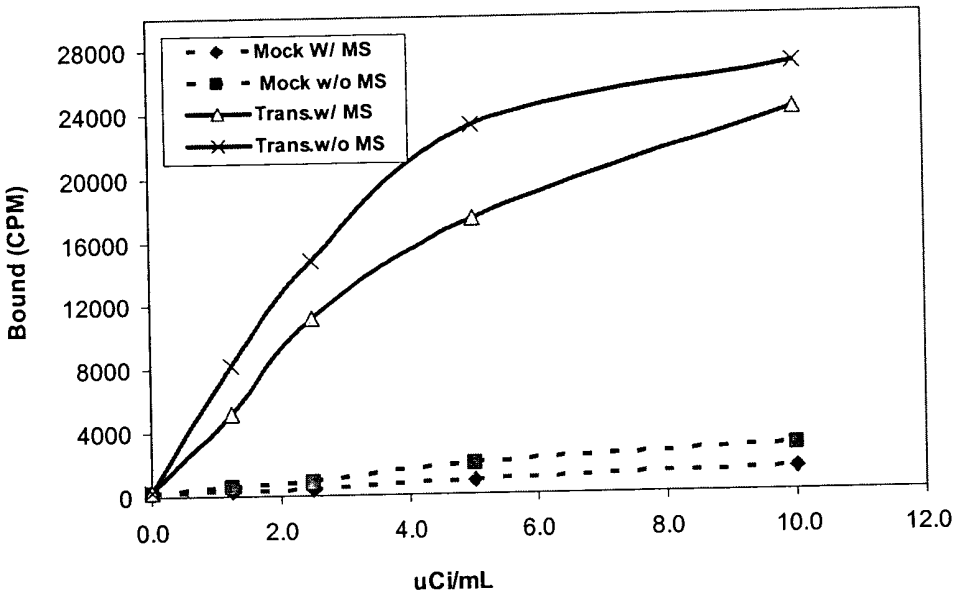

Mock W/ MS
Mock w/o MS
Trans.w/ MS
Trans.w/o MS
28000
24000
20000
16000
12000
8000
4000
0
Bound (CPM)
0.0
2.0
4.0
6.0
8.0
10.0
12.0
uCi/mL

FIG. 29

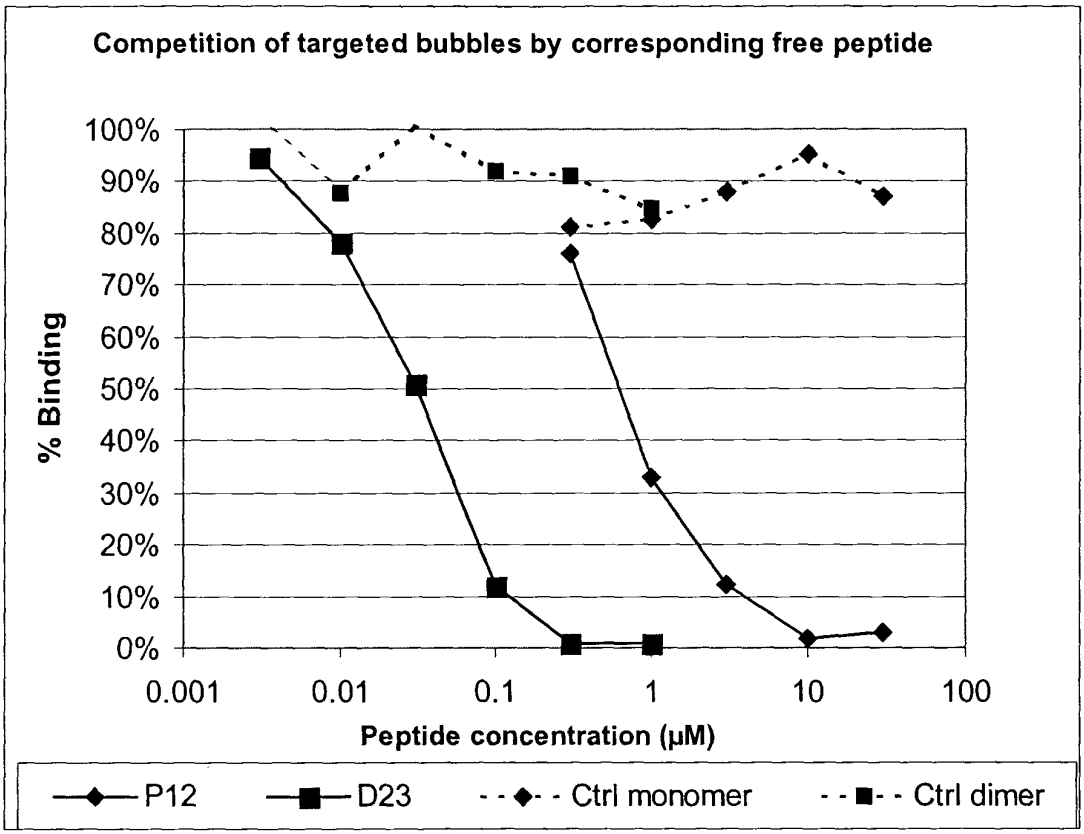

Competition of targeted bubbles by corresponding free peptide
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
% Binding
0.001
0.01
0.1
1
10
100
Peptide concentration (μM)
P12
D23
Ctrl monomer
Ctrl dimer

FIG. 30A

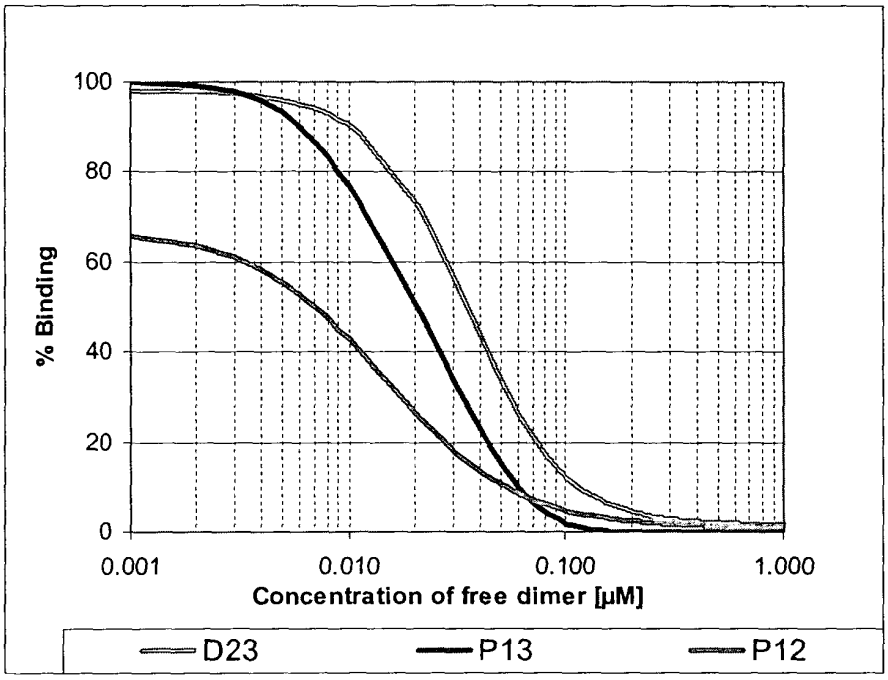

100
80
60
40
20
0
% Binding
0.001
0.010
0.100
1.000
Concentration of free dimer [μM]
D23
P13
P12

FIG. 30B

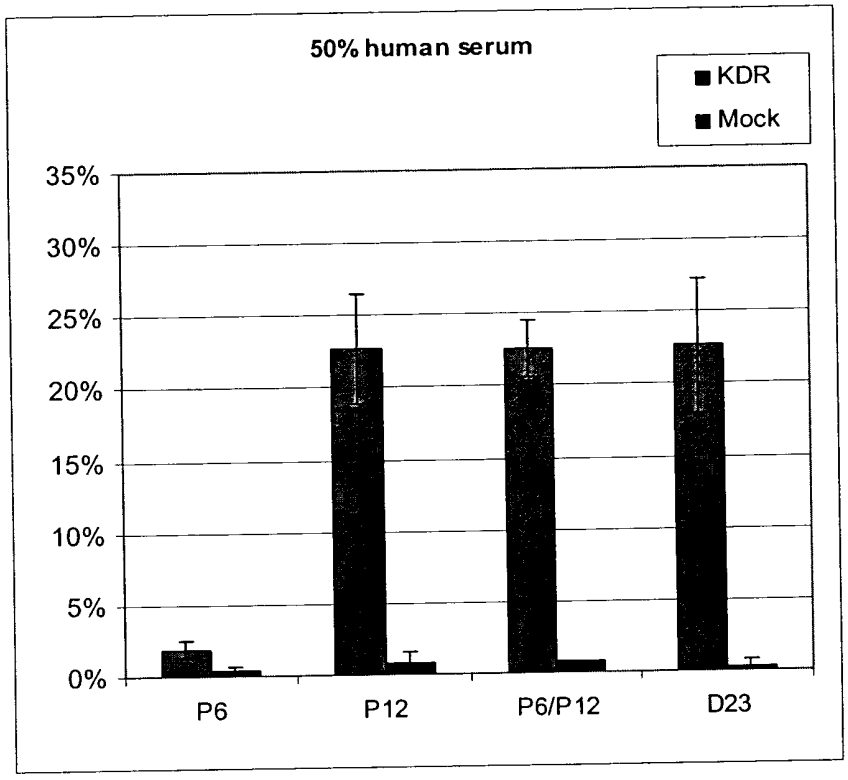


FIG. 30C

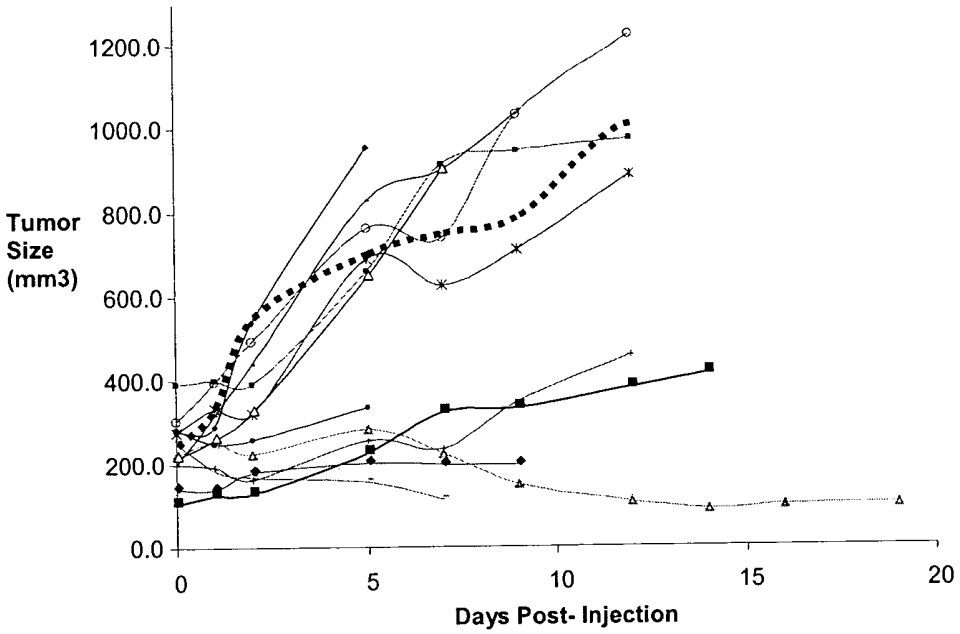

1200.0
1000.0
800.0
600.0
400.0
200.0
0.0
Tumor Size (mm3)
0
5
10
15
20
Days Post- Injection

FIG. 31

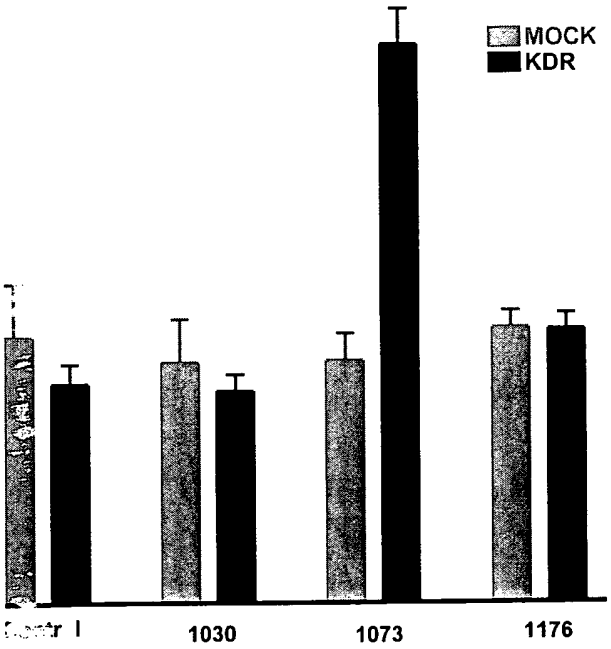


FIG. 32

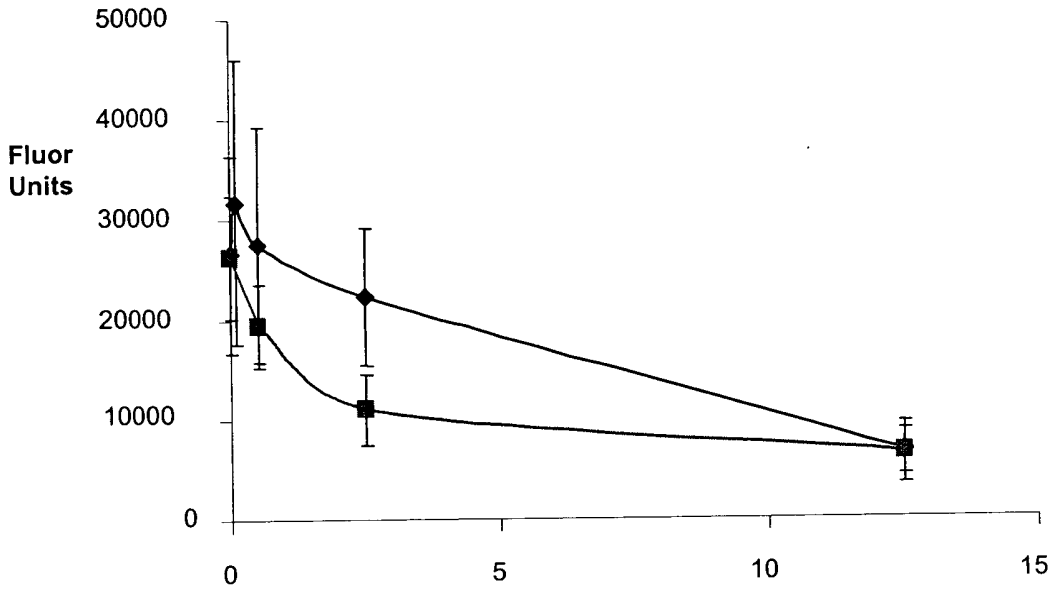


FIG. 33

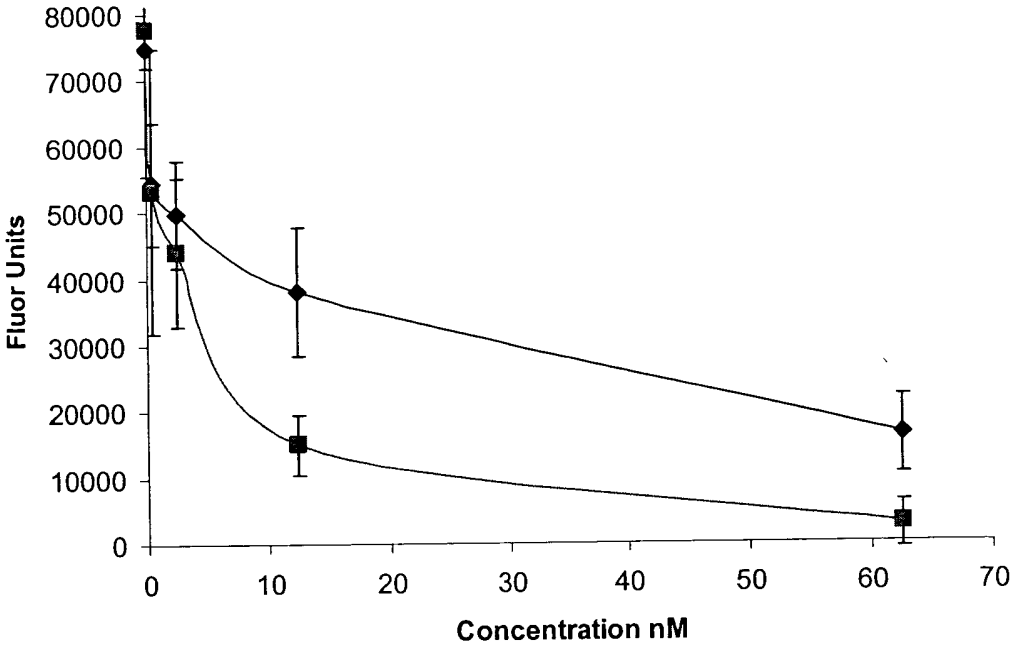

80000
70000
60000
50000
40000
30000
20000
10000
0
Fluor Units
0
10
20
30
40
50
60
70
Concentration nM

FIG. 34

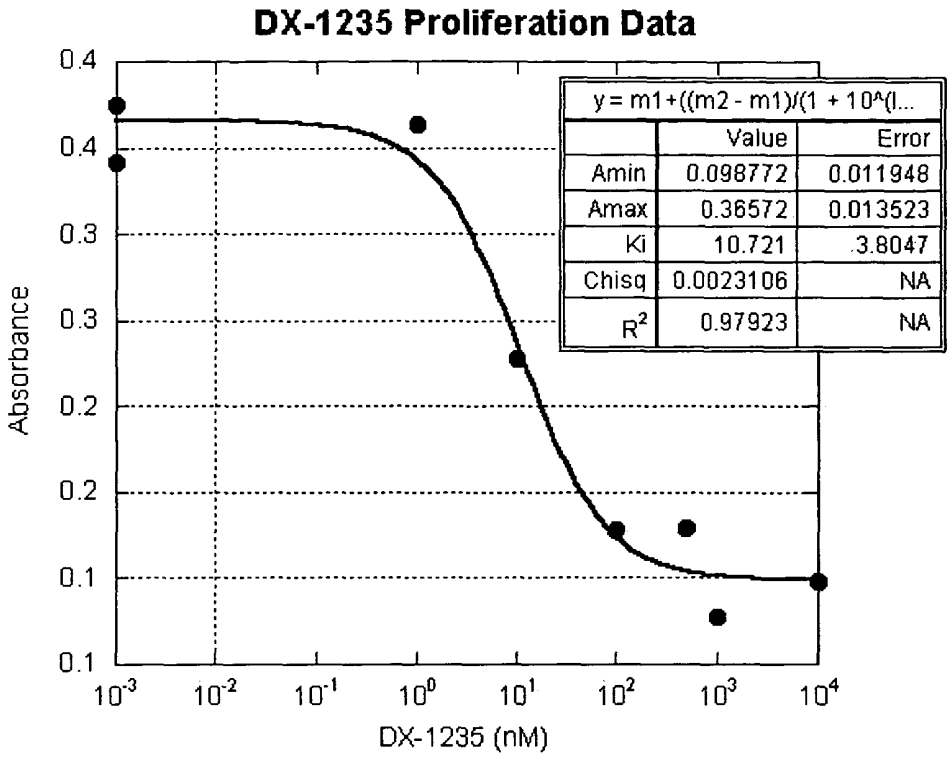

DX-1235 Proliferation Data
y = m1+((m2 - m1)/(1 + 10^(l...
Value
Error
Amin
0.098772
0.011948
Amax
0.36572
0.013523
Ki
10.721
3.8047
Chisq
0.0023106
NA
R²
0.97923
NA
Absorbance
0.4
0.4
0.3
0.3
0.2
0.2
0.1
0.1
10⁻³
10⁻²
10⁻¹
10⁰
10¹
10²
10³
10⁴
DX-1235 (nM)

FIG. 36

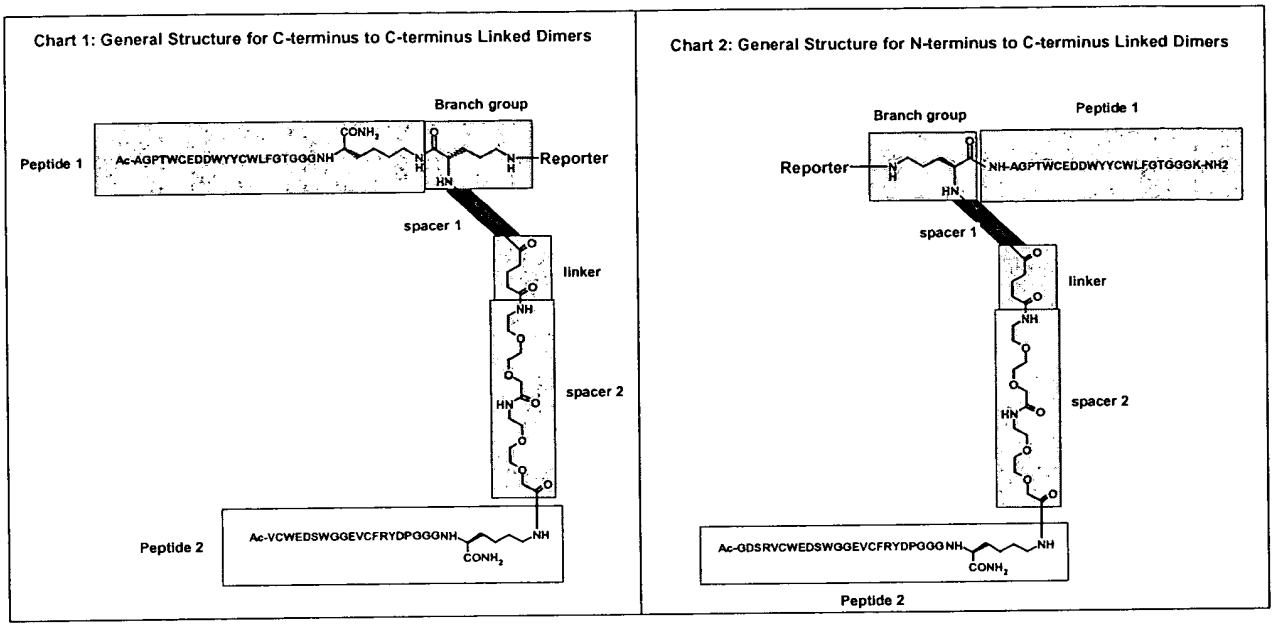


Chart 4: General Structure for N-terminus to N-terminus Linked Dimers

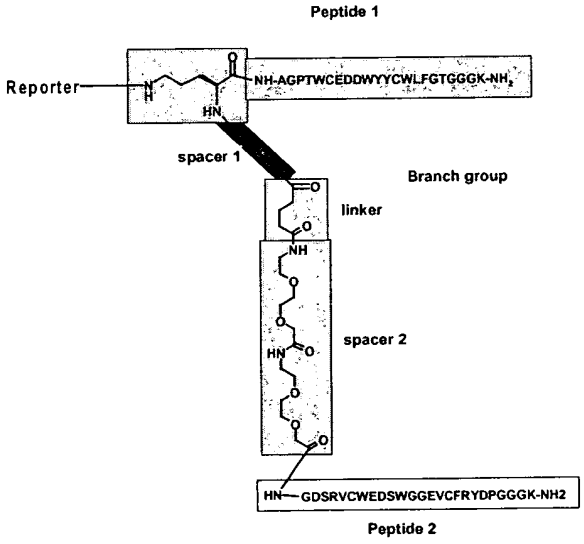


FIG. 37

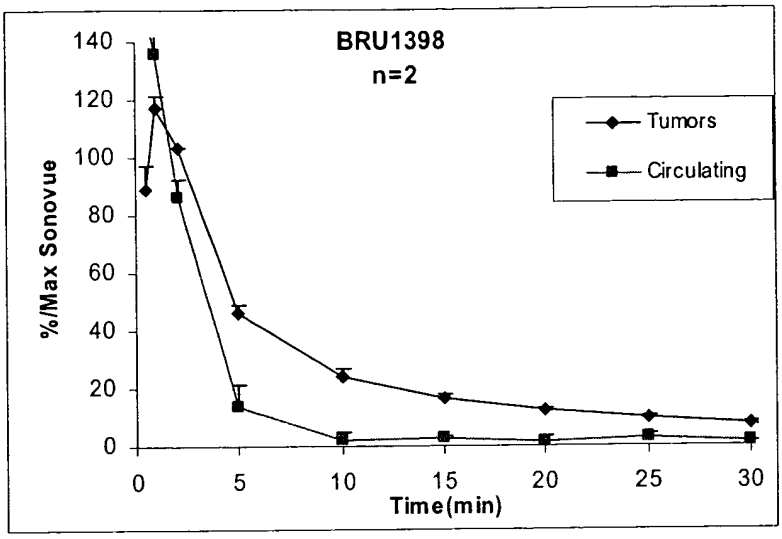
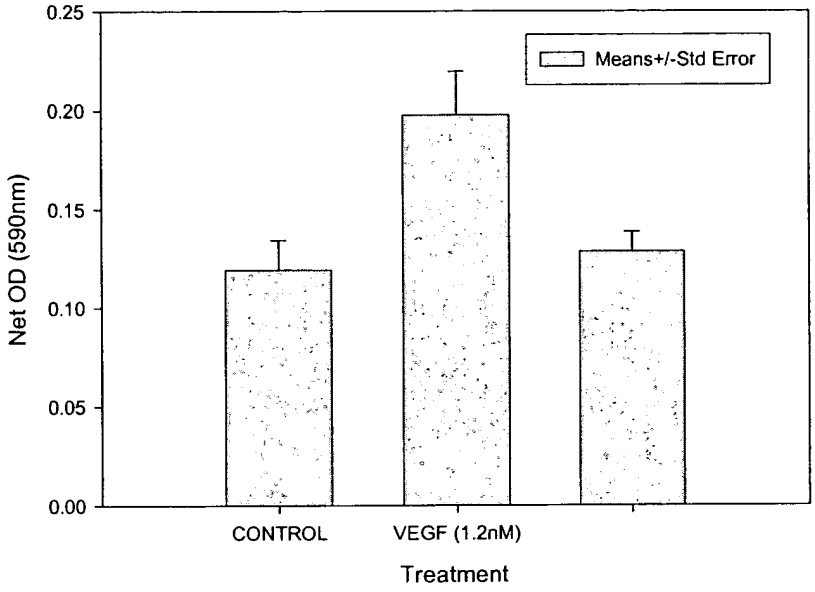

BRU1398
n=2
Tumors
Circulating
%/Max Sonovue
140
120
100
80
60
40
20
0
0
5
10
15
20
25
30
Time(min)

FIG. 38



VEGF + 20 µm
D25

FIG. 39

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0041-H11	365b-M0153-E03	D6	TN11_1	56	2.0933	0.0651	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0041-G08	365b-M0153-G05	D6	TN11_1	56	1.8216	0.0783	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0042-G09	365b-M0154-H04	D6	TN11_1	56	2.2305	0.072	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-F10	365b-M0143-B10	VEGF	TN11_1	56	1.4936	0.3746	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-F09	365b-M0143-D09	VEGF	TN11_1	56	1.2807	0.3825	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-E08	365b-M0143-G01	VEGF	TN11_1	56	1.6558	0.4609	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-H08	365b-M0143-H04	VEGF	TN11_1	56	1.4681	0.3838	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-E07	365b-M0144-A08	VEGF	TN11_1	56	1.1095	0.059	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-G07	365b-M0144-A12	VEGF	TN11_1	56	1.2127	0.0706	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-B06	365b-M0144-B05	VEGF	TN11_1	56	1.6427	0.0657	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-C06	365b-M0144-B06	VEGF	TN11_1	56	1.7453	0.0654	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-D06	365b-M0144-B09	VEGF	TN11_1	56	1.8068	0.061	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-E06	365b-M0144-B10	VEGF	TN11_1	56	1.6318	0.0643	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-F06	365b-M0144-B12	VEGF	TN11_1	56	1.6116	0.0687	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-H06	365b-M0144-C05	VEGF	TN11_1	56	1.6786	0.0631	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-B05	365b-M0144-C08	VEGF	TN11_1	56	1.5119	0.0615	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-C05	365b-M0144-C11	VEGF	TN11_1	56	1.6498	0.0668	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-G05	365b-M0144-D05	VEGF	TN11_1	56	1.8483	0.0701	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-B04	365b-M0144-D10	VEGF	TN11_1	56	1.6392	0.0664	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-C04	365b-M0144-E01	VEGF	TN11_1	56	1.7831	0.075	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-D04	365b-M0144-E02	VEGF	TN11_1	56	2.3208	0.1052	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-E04	365b-M0144-E05	VEGF	TN11_1	56	1.9583	0.0695	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-A03	365b-M0144-E12	VEGF	TN11_1	56	1.7604	0.0802	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-C03	365b-M0144-F04	VEGF	TN11_1	56	1.8146	0.0702	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-F03	365b-M0144-F07	VEGF	TN11_1	56	1.4711	0.0692	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-B02	365b-M0144-G02	VEGF	TN11_1	56	2.3898	0.0986	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-C02	365b-M0144-G07	VEGF	TN11_1	56	1.7058	0.0795	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-F02	365b-M0144-H01	VEGF	TN11_1	56	1.81	0.0753	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-B01	365b-M0144-H10	VEGF	TN11_1	56	2.0114	0.0793	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-C01	365b-M0144-H11	VEGF	TN11_1	56	2.1028	0.0841	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-D01	365b-M0145-A05	VEGF	TN11_1	56	1.7666	0.0872	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-E01	365b-M0145-A06	VEGF	TN11_1	56	1.8092	0.0698	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-F01	365b-M0145-A08	VEGF	TN11_1	56	1.2331	0.0652	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-G01	365b-M0145-A09	VEGF	TN11_1	56	1.1611	0.0635	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-A12	365b-M0145-B01	VEGF	TN11_1	56	1.4894	0.0807	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-B12	365b-M0145-B03	VEGF	TN11_1	56	1.8554	0.0958	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-D12	365b-M0145-B06	VEGF	TN11_1	56	2.0003	0.0677	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-F12	365b-M0145-B08	VEGF	TN11_1	56	1.9329	0.0615	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-B11	365b-M0145-C04	VEGF	TN11_1	56	2.3501	0.1338	505	GSNMVCMDDSYGGTTCYSMAP

FIG. 40A

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0036-C11	365b-M0145-C05	VEGF	TN11_1	56	2.1168	0.1115	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-F11	365b-M0145-D01	VEGF	TN11_1	56	1.8932	0.0783	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-H11	365b-M0145-D09	VEGF	TN11_1	56	2.0577	0.0721	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-A10	365b-M0145-D10	VEGF	TN11_1	56	1.8547	0.0687	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-B10	365b-M0145-D11	VEGF	TN11_1	56	1.7683	0.0744	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-D10	365b-M0145-E04	VEGF	TN11_1	56	2.4185	0.078	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-F10	365b-M0145-E09	VEGF	TN11_1	56	1.7433	0.0736	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-A09	365b-M0145-F01	VEGF	TN11_1	56	2.1888	0.0811	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-C09	365b-M0145-F04	VEGF	TN11_1	56	2.072	0.0761	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-F09	365b-M0145-F10	VEGF	TN11_1	56	1.6636	0.074	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-B08	365b-M0145-G06	VEGF	TN11_1	56	2.3362	0.085	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-E08	365b-M0145-G11	VEGF	TN11_1	56	1.8104	0.0786	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-G08	365b-M0145-H01	VEGF	TN11_1	56	2.5832	0.0827	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-C07	365b-M0145-H07	VEGF	TN11_1	56	2.1164	0.079	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-E07	365b-M0145-H10	VEGF	TN11_1	56	2.0299	0.0775	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-G07	365b-M0146-A04	VEGF	TN11_1	56	1.5759	0.0685	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-B06	365b-M0146-A07	VEGF	TN11_1	56	1.2674	0.0703	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-F06	365b-M0146-B04	VEGF	TN11_1	56	1.951	0.0712	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-H06	365b-M0146-B06	VEGF	TN11_1	56	1.8714	0.0625	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-B05	365b-M0146-B09	VEGF	TN11_1	56	1.989	0.061	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-C05	365b-M0146-B11	VEGF	TN11_1	56	1.6568	0.0639	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-H05	365b-M0146-C09	VEGF	TN11_1	56	1.7486	0.0652	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-C04	365b-M0146-D03	VEGF	TN11_1	56	2.1767	0.0647	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-D04	365b-M0146-D04	VEGF	TN11_1	56	2.0955	0.069	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-H04	365b-M0146-D12	VEGF	TN11_1	56	1.765	0.0797	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-A03	365b-M0146-E01	VEGF	TN11_1	56	1.4439	0.0677	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-B03	365b-M0146-E02	VEGF	TN11_1	56	2.2531	0.0775	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-E03	365b-M0146-E06	VEGF	TN11_1	56	1.9461	0.0697	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-D02	365b-M0146-F08	VEGF	TN11_1	56	1.6111	0.0742	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-H02	365b-M0146-G02	VEGF	TN11_1	56	2.1987	0.0789	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-D01	365b-M0146-G08	VEGF	TN11_1	56	1.7793	0.0749	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-F01	365b-M0146-H01	VEGF	TN11_1	56	1.5328	0.0812	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-G01	365b-M0146-H02	VEGF	TN11_1	56	1.8568	0.0746	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-C12	365b-M0146-H07	VEGF	TN11_1	56	1.9864	0.0768	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-D12	365b-M0146-H08	VEGF	TN11_1	56	1.9049	0.0736	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-F12	365b-M0146-H12	VEGF	TN11_1	56	2.1298	0.1011	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-G12	365b-M0147-A01	VEGF	TN11_1	56	1.337	0.0649	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-A11	365b-M0147-A08	VEGF	TN11_1	56	1.4345	0.0648	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-C11	365b-M0147-A10	VEGF	TN11_1	56	2.0773	0.0648	505	GSNMVCMDDSYGGTTCYSMAP

FIG. 40B

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0037-G11	365b-M0147-B12	VEGF	TN11_1	56	2.1013	0.1125	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-A10	365b-M0147-C02	VEGF	TN11_1	56	2.2433	0.0626	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-D10	365b-M0147-C11	VEGF	TN11_1	56	1.7404	0.0619	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-E10	365b-M0147-C12	VEGF	TN11_1	56	2.3397	0.1106	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-B09	365b-M0147-D12	VEGF	TN11_1	56	2.1546	0.1078	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-F08	365b-M0147-F04	VEGF	TN11_1	56	2.0243	0.0788	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-G08	365b-M0147-F05	VEGF	TN11_1	56	2.3835	0.0635	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-B07	365b-M0147-F09	VEGF	TN11_1	56	1.8595	0.0727	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-D07	365b-M0147-G02	VEGF	TN11_1	56	2.514	0.0747	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-E07	365b-M0147-G04	VEGF	TN11_1	56	2.4482	0.0727	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-G07	365b-M0147-G06	VEGF	TN11_1	56	2.3408	0.0795	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-F06	365b-M0147-H06	VEGF	TN11_1	56	2.4723	0.0686	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-H06	365b-M0147-H10	VEGF	TN11_1	56	2.3901	0.068	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-C05	365b-M0148-A02	VEGF	TN11_1	56	1.3504	0.0594	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-B03	365b-M0148-B11	VEGF	TN11_1	56	1.7443	0.0571	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-C03	365b-M0148-B12	VEGF	TN11_1	56	1.9696	0.1511	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-E03	365b-M0148-C04	VEGF	TN11_1	56	2.1486	0.0578	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-G03	365b-M0148-C06	VEGF	TN11_1	56	1.8688	0.0595	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-B02	365b-M0148-C12	VEGF	TN11_1	56	2.0771	0.0776	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-H02	365b-M0148-D10	VEGF	TN11_1	56	1.5815	0.0683	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-B01	365b-M0148-D12	VEGF	TN11_1	56	2.1104	0.0871	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-D01	365b-M0148-E03	VEGF	TN11_1	56	2.2617	0.0607	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0037-F01	365b-M0148-E07	VEGF	TN11_1	56	1.8064	0.057	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0038-A11	365b-M0148-F11	VEGF	TN11_1	56	1.6833	0.0624	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0038-B11	365b-M0148-F12	VEGF	TN11_1	56	2.1956	0.0883	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0038-C11	365b-M0148-G01	VEGF	TN11_1	56	1.7961	0.0661	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0038-D11	365b-M0148-G03	VEGF	TN11_1	56	2.1389	0.0681	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0038-C10	365b-M0148-H01	VEGF	TN11_1	56	2.2304	0.0719	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0038-G10	365b-M0148-H07	VEGF	TN11_1	56	2.3756	0.1056	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0035-A11	365b-M0139-H11	BEAD	TN11_1	108	1.5109	0.1282	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-G09	365b-M0149-B02	D6	TN11_1	108	2.4218	0.4915	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-C08	365b-M0149-C09	D6	TN11_1	108	1.9571	0.4891	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-C07	365b-M0149-E02	D6	TN11_1	108	2.6639	0.543	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-E07	365b-M0149-E06	D6	TN11_1	108	2.2313	0.4666	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-F07	365b-M0149-E12	D6	TN11_1	108	1.8612	0.4252	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-E05	365b-M0149-H03	D6	TN11_1	108	2.4657	0.487	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-F05	365b-M0149-H04	D6	TN11_1	108	2.4751	0.5198	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-G05	365b-M0149-H11	D6	TN11_1	108	2.0215	0.5437	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-C04	365b-M0150-A04	D6	TN11_1	108	0.7779	0.1201	506	GSYNQCYGDYWGGETCYLIAP

FIG. 40C

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0038-E04	365b-M0150-A06	D6	TN11_1	108	0.9415	0.1344	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-G04	365b-M0150-A09	D6	TN11_1	108	0.6491	0.1151	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-E03	365b-M0150-B10	D6	TN11_1	108	0.7843	0.1227	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-C02	365b-M0150-C06	D6	TN11_1	108	0.6503	0.1133	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-H02	365b-M0150-D02	D6	TN11_1	108	0.9275	0.1248	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-B01	365b-M0150-D04	D6	TN11_1	108	0.7195	0.1405	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-E01	365b-M0150-D09	D6	TN11_1	108	0.6338	0.1151	506	GSYNQCYGDYWGGETCYLIAP
365b-R0038-G01	365b-M0150-D12	D6	TN11_1	108	1.0842	0.1905	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-D12	365b-M0150-E09	D6	TN11_1	108	0.577	0.1083	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-F12	365b-M0150-F02	D6	TN11_1	108	0.8116	0.1157	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-G12	365b-M0150-F03	D6	TN11_1	108	0.8147	0.1245	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-D11	365b-M0150-G03	D6	TN11_1	108	0.7427	0.1382	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-B10	365b-M0150-G12	D6	TN11_1	108	1.0725	0.2625	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-C09	365b-M0151-A01	D6	TN11_1	108	0.5609	0.0972	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-F09	365b-M0151-A04	D6	TN11_1	108	0.7301	0.1073	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-G09	365b-M0151-A05	D6	TN11_1	108	0.8841	0.1089	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-H09	365b-M0151-A06	D6	TN11_1	108	0.7865	0.102	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-C08	365b-M0151-A10	D6	TN11_1	108	0.6065	0.116	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-C07	365b-M0151-B10	D6	TN11_1	108	0.701	0.0946	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-E06	365b-M0151-D06	D6	TN11_1	108	0.6977	0.1366	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-F06	365b-M0151-D07	D6	TN11_1	108	0.6537	0.1041	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-E05	365b-M0151-E07	D6	TN11_1	108	0.5556	0.0893	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-F05	365b-M0151-E09	D6	TN11_1	108	0.5836	0.1025	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-C04	365b-M0151-F03	D6	TN11_1	108	0.7685	0.1237	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-A03	365b-M0151-F10	D6	TN11_1	108	0.7138	0.1044	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-C03	365b-M0151-G01	D6	TN11_1	108	0.6251	0.1115	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-E03	365b-M0151-G03	D6	TN11_1	108	0.809	0.129	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-H03	365b-M0151-G06	D6	TN11_1	108	0.7398	0.1653	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-A02	365b-M0151-G08	D6	TN11_1	108	0.6397	0.1151	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-D02	365b-M0151-G12	D6	TN11_1	108	1.1096	0.2457	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-E02	365b-M0151-H02	D6	TN11_1	108	0.7822	0.0977	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-F02	365b-M0151-H03	D6	TN11_1	108	0.8631	0.1002	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-G02	365b-M0151-H04	D6	TN11_1	108	0.8218	0.1129	506	GSYNQCYGDYWGGETCYLIAP
365b-R0039-F01	365b-M0151-H11	D6	TN11_1	108	0.873	0.1035	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-A12	365b-M0152-A04	D6	TN11_1	108	0.939	0.1041	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-C12	365b-M0152-A06	D6	TN11_1	108	1.462	0.0954	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-A11	365b-M0152-B01	D6	TN11_1	108	0.7894	0.0819	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-B11	365b-M0152-B02	D6	TN11_1	108	1.3078	0.0941	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-A10	365b-M0152-B11	D6	TN11_1	108	1.3612	0.0889	506	GSYNQCYGDYWGGETCYLIAP

FIG. 40D

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0040-B10	365b-M0152-B12	D6	TN11_1	108	1.7873	0.1135	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-G10	365b-M0152-C05	D6	TN11_1	108	1.3721	0.094	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-F09	365b-M0152-D04	D6	TN11_1	108	1.4476	0.1023	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-C08	365b-M0152-D11	D6	TN11_1	108	1.2676	0.0926	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-C07	365b-M0152-E08	D6	TN11_1	108	1.1603	0.0931	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-E07	365b-M0152-E10	D6	TN11_1	108	1.248	0.0887	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-F07	365b-M0152-F01	D6	TN11_1	108	1.2199	0.0899	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-E06	365b-M0152-F10	D6	TN11_1	108	1.2302	0.0911	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-H06	365b-M0152-G01	D6	TN11_1	108	0.9249	0.0797	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-A04	365b-M0152-H02	D6	TN11_1	108	1.5889	0.0925	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-D04	365b-M0152-H05	D6	TN11_1	108	1.831	0.1062	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-F04	365b-M0152-H07	D6	TN11_1	108	1.8048	0.114	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-H04	365b-M0152-H10	D6	TN11_1	108	1.7804	0.0956	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-B02	365b-M0153-B01	D6	TN11_1	108	1.3845	0.0848	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-B01	365b-M0153-B10	D6	TN11_1	108	1.24	0.0781	506	GSYNQCYGDYWGGETCYLIAP
365b-R0040-G01	365b-M0153-C03	D6	TN11_1	108	1.6074	0.0853	506	GSYNQCYGDYWGGETCYLIAP
365b-R0041-F12	365b-M0153-C11	D6	TN11_1	108	1.2196	0.08	506	GSYNQCYGDYWGGETCYLIAP
365b-R0041-H12	365b-M0153-D03	D6	TN11_1	108	1.6923	0.0909	506	GSYNQCYGDYWGGETCYLIAP
365b-R0041-C11	365b-M0153-D09	D6	TN11_1	108	1.586	0.0829	506	GSYNQCYGDYWGGETCYLIAP
365b-R0041-D10	365b-M0153-E07	D6	TN11_1	108	1.2619	0.0827	506	GSYNQCYGDYWGGETCYLIAP
365b-R0041-E09	365b-M0153-F05	D6	TN11_1	108	1.5307	0.0903	506	GSYNQCYGDYWGGETCYLIAP
365b-R0041-F09	365b-M0153-F06	D6	TN11_1	108	1.5206	0.0904	506	GSYNQCYGDYWGGETCYLIAP
365b-R0041-H08	365b-M0153-G06	D6	TN11_1	108	1.6126	0.1136	506	GSYNQCYGDYWGGETCYLIAP
365b-R0041-E07	365b-M0153-H01	D6	TN11_1	108	1.2867	0.0891	506	GSYNQCYGDYWGGETCYLIAP
365b-R0041-F07	365b-M0153-H02	D6	TN11_1	108	1.6853	0.087	506	GSYNQCYGDYWGGETCYLIAP
365b-R0041-B05	365b-M0154-A08	D6	TN11_1	108	1.091	0.0963	506	GSYNQCYGDYWGGETCYLIAP
365b-R0041-B04	365b-M0154-B04	D6	TN11_1	108	1.2637	0.1048	506	GSYNQCYGDYWGGETCYLIAP
365b-R0041-H03	365b-M0154-C08	D6	TN11_1	108	1.0433	0.1111	506	GSYNQCYGDYWGGETCYLIAP
365b-R0041-A02	365b-M0154-C09	D6	TN11_1	108	1.0429	0.0954	506	GSYNQCYGDYWGGETCYLIAP
365b-R0041-E02	365b-M0154-D01	D6	TN11_1	108	1.5327	0.1155	506	GSYNQCYGDYWGGETCYLIAP
365b-R0041-F02	365b-M0154-D03	D6	TN11_1	108	1.3788	0.1047	506	GSYNQCYGDYWGGETCYLIAP
365b-R0042-C12	365b-M0154-E05	D6	TN11_1	108	1.2854	0.1057	506	GSYNQCYGDYWGGETCYLIAP
365b-R0042-E12	365b-M0154-E08	D6	TN11_1	108	0.7958	0.1016	506	GSYNQCYGDYWGGETCYLIAP
365b-R0042-C11	365b-M0154-F03	D6	TN11_1	108	1.538	0.1437	506	GSYNQCYGDYWGGETCYLIAP
365b-R0042-D11	365b-M0154-F04	D6	TN11_1	108	1.0934	0.1149	506	GSYNQCYGDYWGGETCYLIAP
365b-R0042-D10	365b-M0154-G02	D6	TN11_1	108	1.5584	0.1248	506	GSYNQCYGDYWGGETCYLIAP
365b-R0042-E10	365b-M0154-G03	D6	TN11_1	108	1.2629	0.1204	506	GSYNQCYGDYWGGETCYLIAP
365b-R0042-G10	365b-M0154-G07	D6	TN11_1	108	1.0574	0.0999	506	GSYNQCYGDYWGGETCYLIAP
365b-R0042-D09	365b-M0154-H01	D6	TN11_1	108	0.8517	0.0868	506	GSYNQCYGDYWGGETCYLIAP

FIG. 40E

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0042-F09	365b-M0154-H03	D6	TN11_1	108	1.6117	0.1027	506	GSYNQCYGDYWGGETCYLIAP
365b-R0042-B08	365b-M0154-H07	D6	TN11_1	108	1.3945	0.0923	506	GSYNQCYGDYWGGETCYLIAP
365b-R0042-D08	365b-M0154-H09	D6	TN11_1	108	0.8929	0.1491	506	GSYNQCYGDYWGGETCYLIAP
365b-R0035-F04	365b-M0144-E06	VEGF	TN11_1	108	1.1299	0.0869	506	GSYNQCYGDYWGGETCYLIAP
365b-R0035-D03	365b-M0144-F05	VEGF	TN11_1	108	1.2744	0.0928	506	GSYNQCYGDYWGGETCYLIAP
365b-R0035-G11	365b-M0141-C01	BEAD	TN11_1	79	0.7345	0.0742	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-D10	365b-M0143-B06	VEGF	TN11_1	79	1.2166	0.3889	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-E10	365b-M0143-B09	VEGF	TN11_1	79	1.1555	0.3697	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-G10	365b-M0143-C01	VEGF	TN11_1	79	1.1283	0.3727	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-H10	365b-M0143-C03	VEGF	TN11_1	79	1.3144	0.371	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-A09	365b-M0143-C05	VEGF	TN11_1	79	1.2601	0.4075	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-B09	365b-M0143-C06	VEGF	TN11_1	79	1.3289	0.33	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-C09	365b-M0143-C09	VEGF	TN11_1	79	1.1007	0.3639	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-E09	365b-M0143-D08	VEGF	TN11_1	79	1.0239	0.3353	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-G09	365b-M0143-E02	VEGF	TN11_1	79	1.5319	0.4308	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-H09	365b-M0143-E03	VEGF	TN11_1	79	1.3567	0.3826	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-A08	365b-M0143-E05	VEGF	TN11_1	79	1.4667	0.3864	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-B08	365b-M0143-E07	VEGF	TN11_1	79	1.2165	0.3718	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-C08	365b-M0143-F02	VEGF	TN11_1	79	1.4336	0.4348	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-D08	365b-M0143-F04	VEGF	TN11_1	79	1.2934	0.4065	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-F08	365b-M0143-G04	VEGF	TN11_1	79	1.3589	0.4454	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-G08	365b-M0143-H03	VEGF	TN11_1	79	1.3421	0.3736	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-A07	365b-M0143-H06	VEGF	TN11_1	79	1.1833	0.3753	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-H07	365b-M0144-B01	VEGF	TN11_1	79	0.4672	0.0662	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-H05	365b-M0144-D06	VEGF	TN11_1	79	0.4068	0.0682	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-A04	365b-M0144-D09	VEGF	TN11_1	79	0.3866	0.073	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0035-G04	365b-M0144-E08	VEGF	TN11_1	79	0.3714	0.0682	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0036-D11	365b-M0145-C08	VEGF	TN11_1	79	0.487	0.0683	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0036-E10	365b-M0145-E07	VEGF	TN11_1	79	0.614	0.0753	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0036-G09	365b-M0145-F11	VEGF	TN11_1	79	0.5203	0.0735	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0036-C06	365b-M0146-A11	VEGF	TN11_1	79	0.4988	0.0592	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0036-E06	365b-M0146-B03	VEGF	TN11_1	79	0.5454	0.0968	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0036-E01	365b-M0146-G11	VEGF	TN11_1	79	0.4965	0.0788	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0037-E11	365b-M0147-B09	VEGF	TN11_1	79	0.7309	0.0824	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0037-A07	365b-M0147-F08	VEGF	TN11_1	79	0.4608	0.0791	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0037-C07	365b-M0147-F10	VEGF	TN11_1	79	0.5636	0.0682	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0037-H07	365b-M0147-G09	VEGF	TN11_1	79	0.6262	0.0756	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0037-D06	365b-M0147-H01	VEGF	TN11_1	79	0.4735	0.0816	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0037-F05	365b-M0148-A06	VEGF	TN11_1	79	0.4994	0.0652	507	GSRVNCGAEDGLSFLCMMDAP

FIG. 40F

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0037-C02	365b-M0148-D01	VEGF	TN11_1	79	0.7838	0.0633	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0037-F02	365b-M0148-D04	VEGF	TN11_1	79	0.625	0.0593	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0038-A12	365b-M0148-E10	VEGF	TN11_1	79	0.437	0.0591	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0038-E11	365b-M0148-G04	VEGF	TN11_1	79	0.5606	0.0677	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0038-A10	365b-M0148-G11	VEGF	TN11_1	79	0.6155	0.0679	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0038-F10	365b-M0148-H05	VEGF	TN11_1	79	0.6749	0.0715	507	GSRVNCGAEDGLSFLCMMDAP
365b-R0038-A08	365b-M0149-B11	D6	TN11_1	43	2.0419	0.5295	508	GSIWDCQISEYGGEDCYLVAP
365b-R0038-D08	365b-M0149-C12	D6	TN11_1	43	1.5383	0.436	508	GSIWDCQISEYGGEDCYLVAP
365b-R0038-G07	365b-M0149-F01	D6	TN11_1	43	2.1116	0.4716	508	GSIWDCQISEYGGEDCYLVAP
365b-R0038-B06	365b-M0149-F07	D6	TN11_1	43	2.3101	0.4743	508	GSIWDCQISEYGGEDCYLVAP
365b-R0038-C06	365b-M0149-F10	D6	TN11_1	43	1.5905	0.4115	508	GSIWDCQISEYGGEDCYLVAP
365b-R0038-H06	365b-M0149-G06	D6	TN11_1	43	2.6437	0.6119	508	GSIWDCQISEYGGEDCYLVAP
365b-R0038-B04	365b-M0150-A03	D6	TN11_1	43	0.6808	0.0937	508	GSIWDCQISEYGGEDCYLVAP
365b-R0038-D01	365b-M0150-D08	D6	TN11_1	43	0.5882	0.0823	508	GSIWDCQISEYGGEDCYLVAP
365b-R0039-B12	365b-M0150-E05	D6	TN11_1	43	0.7005	0.0983	508	GSIWDCQISEYGGEDCYLVAP
365b-R0039-D08	365b-M0151-A11	D6	TN11_1	43	0.365	0.0924	508	GSIWDCQISEYGGEDCYLVAP
365b-R0040-E12	365b-M0152-A08	D6	TN11_1	43	0.983	0.0819	508	GSIWDCQISEYGGEDCYLVAP
365b-R0040-D09	365b-M0152-C11	D6	TN11_1	43	1.0764	0.0756	508	GSIWDCQISEYGGEDCYLVAP
365b-R0040-H09	365b-M0152-D06	D6	TN11_1	43	1.2021	0.0797	508	GSIWDCQISEYGGEDCYLVAP
365b-R0040-A08	365b-M0152-D08	D6	TN11_1	43	1.0779	0.0721	508	GSIWDCQISEYGGEDCYLVAP
365b-R0040-G05	365b-M0152-G12	D6	TN11_1	43	1.561	0.1663	508	GSIWDCQISEYGGEDCYLVAP
365b-R0040-H05	365b-M0152-H01	D6	TN11_1	43	0.7801	0.0854	508	GSIWDCQISEYGGEDCYLVAP
365b-R0040-C04	365b-M0152-H04	D6	TN11_1	43	1.5565	0.08	508	GSIWDCQISEYGGEDCYLVAP
365b-R0040-G02	365b-M0153-B07	D6	TN11_1	43	0.9987	0.0805	508	GSIWDCQISEYGGEDCYLVAP
365b-R0040-E01	365b-M0153-C01	D6	TN11_1	43	1.2912	0.072	508	GSIWDCQISEYGGEDCYLVAP
365b-R0040-F01	365b-M0153-C02	D6	TN11_1	43	1.2425	0.076	508	GSIWDCQISEYGGEDCYLVAP
365b-R0041-E10	365b-M0153-E09	D6	TN11_1	43	0.9415	0.0704	508	GSIWDCQISEYGGEDCYLVAP
365b-R0041-F10	365b-M0153-E10	D6	TN11_1	43	0.9284	0.0665	508	GSIWDCQISEYGGEDCYLVAP
365b-R0041-C08	365b-M0153-F12	D6	TN11_1	43	1.4044	0.1209	508	GSIWDCQISEYGGEDCYLVAP
365b-R0041-A06	365b-M0153-H06	D6	TN11_1	43	1.428	0.0763	508	GSIWDCQISEYGGEDCYLVAP
365b-R0041-B06	365b-M0153-H07	D6	TN11_1	43	1.3097	0.08	508	GSIWDCQISEYGGEDCYLVAP
365b-R0041-H05	365b-M0154-B02	D6	TN11_1	43	1.1868	0.0883	508	GSIWDCQISEYGGEDCYLVAP
365b-R0041-A04	365b-M0154-B03	D6	TN11_1	43	0.9499	0.0884	508	GSIWDCQISEYGGEDCYLVAP
365b-R0042-H12	365b-M0154-E12	D6	TN11_1	43	1.2489	0.1536	508	GSIWDCQISEYGGEDCYLVAP
365b-R0042-A11	365b-M0154-F01	D6	TN11_1	43	1.1863	0.0979	508	GSIWDCQISEYGGEDCYLVAP
365b-R0038-H09	365b-M0149-B07	D6	TN11_1	111	4	0.5739	509	GSYWHCMDDFFGGETCFATAP
365b-R0038-A04	365b-M0150-A01	D6	TN11_1	111	1.1419	0.1288	509	GSYWHCMDDFFGGETCFATAP
365b-R0039-E12	365b-M0150-F01	D6	TN11_1	111	1.676	0.1496	509	GSYWHCMDDFFGGETCFATAP
365b-R0039-F11	365b-M0150-G05	D6	TN11_1	111	1.2592	0.1442	509	GSYWHCMDDFFGGETCFATAP

FIG. 40G

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0039-G11	365b-M0150-G08	D6	TN11_1	111	1.2749	0.1385	509	GSYWHCMDDFFGGETCFATAP
365b-R0039-C10	365b-M0150-H01	D6	TN11_1	111	1.1529	0.1197	509	GSYWHCMDDFFGGETCFATAP
365b-R0039-H06	365b-M0151-E01	D6	TN11_1	111	1.507	0.1199	509	GSYWHCMDDFFGGETCFATAP
365b-R0039-A05	365b-M0151-E02	D6	TN11_1	111	1.7557	0.1303	509	GSYWHCMDDFFGGETCFATAP
365b-R0039-A04	365b-M0151-F01	D6	TN11_1	111	1.9634	0.1403	509	GSYWHCMDDFFGGETCFATAP
365b-R0039-C02	365b-M0151-G11	D6	TN11_1	111	1.6072	0.1492	509	GSYWHCMDDFFGGETCFATAP
365b-R0040-H10	365b-M0152-C06	D6	TN11_1	111	2.4674	0.1103	509	GSYWHCMDDFFGGETCFATAP
365b-R0040-B08	365b-M0152-D09	D6	TN11_1	111	2.7702	0.1294	509	GSYWHCMDDFFGGETCFATAP
365b-R0040-A07	365b-M0152-E05	D6	TN11_1	111	2.6951	0.1053	509	GSYWHCMDDFFGGETCFATAP
365b-R0040-C06	365b-M0152-F08	D6	TN11_1	111	2.1454	0.1114	509	GSYWHCMDDFFGGETCFATAP
365b-R0040-G06	365b-M0152-F12	D6	TN11_1	111	2.728	0.245	509	GSYWHCMDDFFGGETCFATAP
365b-R0040-A05	365b-M0152-G02	D6	TN11_1	111	2.7657	0.1262	509	GSYWHCMDDFFGGETCFATAP
365b-R0040-B03	365b-M0152-H12	D6	TN11_1	111	2.9163	0.1563	509	GSYWHCMDDFFGGETCFATAP
365b-R0040-C02	365b-M0153-B02	D6	TN11_1	111	2.6862	0.1018	509	GSYWHCMDDFFGGETCFATAP
365b-R0040-D02	365b-M0153-B03	D6	TN11_1	111	2.4014	0.0993	509	GSYWHCMDDFFGGETCFATAP
365b-R0041-C12	365b-M0153-C08	D6	TN11_1	111	2.4439	0.0976	509	GSYWHCMDDFFGGETCFATAP
365b-R0041-D12	365b-M0153-C09	D6	TN11_1	111	2.2474	0.0903	509	GSYWHCMDDFFGGETCFATAP
365b-R0041-F11	365b-M0153-D12	D6	TN11_1	111	2.8165	0.1229	509	GSYWHCMDDFFGGETCFATAP
365b-R0041-B10	365b-M0153-E05	D6	TN11_1	111	2.8272	0.1043	509	GSYWHCMDDFFGGETCFATAP
365b-R0041-D09	365b-M0153-F04	D6	TN11_1	111	2.5974	0.1115	509	GSYWHCMDDFFGGETCFATAP
365b-R0041-E06	365b-M0154-A01	D6	TN11_1	111	1.6239	0.132	509	GSYWHCMDDFFGGETCFATAP
365b-R0041-B03	365b-M0154-C01	D6	TN11_1	111	2.5151	0.1237	509	GSYWHCMDDFFGGETCFATAP
365b-R0041-F03	365b-M0154-C06	D6	TN11_1	111	1.9768	0.1203	509	GSYWHCMDDFFGGETCFATAP
365b-R0042-A12	365b-M0154-E02	D6	TN11_1	111	2.6868	0.1309	509	GSYWHCMDDFFGGETCFATAP
365b-R0038-A07	365b-M0149-D10	D6	TN11_1	31	4	0.448	510	GSGEYCFPSIYGGETCYAHAP
365b-R0038-A05	365b-M0149-G10	D6	TN11_1	31	3.5244	0.5905	510	GSGEYCFPSIYGGETCYAHAP
365b-R0038-D02	365b-M0150-C08	D6	TN11_1	31	1.6268	0.0913	510	GSGEYCFPSIYGGETCYAHAP
365b-R0038-F01	365b-M0150-D11	D6	TN11_1	31	1.5058	0.0894	510	GSGEYCFPSIYGGETCYAHAP
365b-R0039-C11	365b-M0150-G01	D6	TN11_1	31	1.8336	0.0825	510	GSGEYCFPSIYGGETCYAHAP
365b-R0039-E11	365b-M0150-G04	D6	TN11_1	31	2.0997	0.1	510	GSGEYCFPSIYGGETCYAHAP
365b-R0039-A09	365b-M0150-H11	D6	TN11_1	31	2.2131	0.0854	510	GSGEYCFPSIYGGETCYAHAP
365b-R0039-B09	365b-M0150-H12	D6	TN11_1	31	2.2237	0.1137	510	GSGEYCFPSIYGGETCYAHAP
365b-R0039-A08	365b-M0151-A07	D6	TN11_1	31	2.1761	0.0808	510	GSGEYCFPSIYGGETCYAHAP
365b-R0039-E08	365b-M0151-A12	D6	TN11_1	31	1.6938	0.0911	510	GSGEYCFPSIYGGETCYAHAP
365b-R0039-H08	365b-M0151-B05	D6	TN11_1	31	1.8393	0.0822	510	GSGEYCFPSIYGGETCYAHAP
365b-R0039-B07	365b-M0151-B08	D6	TN11_1	31	1.838	0.0904	510	GSGEYCFPSIYGGETCYAHAP
365b-R0039-G07	365b-M0151-C10	D6	TN11_1	31	1.4918	0.0777	510	GSGEYCFPSIYGGETCYAHAP
365b-R0040-F10	365b-M0152-C04	D6	TN11_1	31	3	0.0764	510	GSGEYCFPSIYGGETCYAHAP
365b-R0040-D01	365b-M0153-B12	D6	TN11_1	31	2.7311	0.0631	510	GSGEYCFPSIYGGETCYAHAP

FIG. 40H

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0041-A08	365b-M0153-F10	D6	TN11_1	31	2.5077	0.0752	510	GSGEYCFPSIYGGETCYAHAP
365b-R0041-H06	365b-M0154-A04	D6	TN11_1	31	2.5667	0.0956	510	GSGEYCFPSIYGGETCYAHAP
365b-R0041-E05	365b-M0154-A11	D6	TN11_1	31	2.0621	0.0864	510	GSGEYCFPSIYGGETCYAHAP
365b-R0041-E04	365b-M0154-B07	D6	TN11_1	31	2.1282	0.0785	510	GSGEYCFPSIYGGETCYAHAP
365b-R0041-E03	365b-M0154-C05	D6	TN11_1	31	2.4869	0.085	510	GSGEYCFPSIYGGETCYAHAP
365b-R0041-C02	365b-M0154-C11	D6	TN11_1	31	1.9893	0.0709	510	GSGEYCFPSIYGGETCYAHAP
365b-R0042-B12	365b-M0154-E03	D6	TN11_1	31	2.8076	0.0831	510	GSGEYCFPSIYGGETCYAHAP
365b-R0042-F12	365b-M0154-E09	D6	TN11_1	31	2.0439	0.0793	510	GSGEYCFPSIYGGETCYAHAP
365b-R0042-C08	365b-M0154-H08	D6	TN11_1	31	2.5615	0.1115	510	GSGEYCFPSIYGGETCYAHAP
365b-R0038-E02	365b-M0150-C10	D6	TN11_1	21	0.5866	0.1044	511	GSEQLCFEYQYGGVECFGPAP
365b-R0038-C01	365b-M0150-D06	D6	TN11_1	21	0.5888	0.0878	511	GSEQLCFEYQYGGVECFGPAP
365b-R0038-H01	365b-M0150-E01	D6	TN11_1	21	0.5976	0.083	511	GSEQLCFEYQYGGVECFGPAP
365b-R0039-G05	365b-M0151-E11	D6	TN11_1	21	0.531	0.0805	511	GSEQLCFEYQYGGVECFGPAP
365b-R0039-F04	365b-M0151-F07	D6	TN11_1	21	0.5238	0.0841	511	GSEQLCFEYQYGGVECFGPAP
365b-R0039-G03	365b-M0151-G05	D6	TN11_1	21	0.5075	0.0865	511	GSEQLCFEYQYGGVECFGPAP
365b-R0039-B01	365b-M0151-H07	D6	TN11_1	21	0.8078	0.0896	511	GSEQLCFEYQYGGVECFGPAP
365b-R0040-D11	365b-M0152-B04	D6	TN11_1	21	1.1873	0.0799	511	GSEQLCFEYQYGGVECFGPAP
365b-R0040-G11	365b-M0152-B08	D6	TN11_1	21	1.1131	0.0816	511	GSEQLCFEYQYGGVECFGPAP
365b-R0040-A09	365b-M0152-C07	D6	TN11_1	21	1.2876	0.0631	511	GSEQLCFEYQYGGVECFGPAP
365b-R0040-G07	365b-M0152-F03	D6	TN11_1	21	1.3527	0.0821	511	GSEQLCFEYQYGGVECFGPAP
365b-R0040-C03	365b-M0153-A01	D6	TN11_1	21	0.7142	0.0759	511	GSEQLCFEYQYGGVECFGPAP
365b-R0040-H03	365b-M0153-A10	D6	TN11_1	21	0.9649	0.0686	511	GSEQLCFEYQYGGVECFGPAP
365b-R0040-E02	365b-M0153-B04	D6	TN11_1	21	1.1747	0.0703	511	GSEQLCFEYQYGGVECFGPAP
365b-R0041-G12	365b-M0153-C12	D6	TN11_1	21	1.4529	0.0773	511	GSEQLCFEYQYGGVECFGPAP
365b-R0041-C10	365b-M0153-E06	D6	TN11_1	21	0.948	0.0669	511	GSEQLCFEYQYGGVECFGPAP
365b-R0041-D08	365b-M0153-G02	D6	TN11_1	21	1.4348	0.0824	511	GSEQLCFEYQYGGVECFGPAP
365b-R0041-D07	365b-M0153-G11	D6	TN11_1	21	1.0631	0.0759	511	GSEQLCFEYQYGGVECFGPAP
365b-R0041-C04	365b-M0154-B05	D6	TN11_1	21	0.9363	0.0786	511	GSEQLCFEYQYGGVECFGPAP
365b-R0041-C01	365b-M0154-D08	D6	TN11_1	21	0.8975	0.0707	511	GSEQLCFEYQYGGVECFGPAP
365b-R0042-D12	365b-M0154-E07	D6	TN11_1	21	0.811	0.0759	511	GSEQLCFEYQYGGVECFGPAP
365b-R0038-G08	365b-M0149-D06	D6	TN11_1	89	3.0154	0.4493	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0039-A12	365b-M0150-E04	D6	TN11_1	89	1.1513	0.0925	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0039-H11	365b-M0150-G09	D6	TN11_1	89	0.8518	0.114	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0039-E10	365b-M0150-H06	D6	TN11_1	89	1.1328	0.0852	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0039-D09	365b-M0151-A02	D6	TN11_1	89	0.7824	0.0722	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0039-F08	365b-M0151-B01	D6	TN11_1	89	0.995	0.0666	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0039-C06	365b-M0151-D02	D6	TN11_1	89	1.2588	0.0716	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0039-H05	365b-M0151-E12	D6	TN11_1	89	1.6778	0.1395	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0039-F03	365b-M0151-G04	D6	TN11_1	89	0.8997	0.0855	512	GSTGVCSPAPYGGEVCYHFAP

FIG. 40I

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0040-F08	365b-M0152-E02	D6	TN11_1	89	1.9751	0.0708	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0040-F06	365b-M0152-F11	D6	TN11_1	89	1.6171	0.0776	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0041-A12	365b-M0153-C06	D6	TN11_1	89	1.6131	0.0623	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0041-C09	365b-M0153-F03	D6	TN11_1	89	1.9526	0.073	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0041-F08	365b-M0153-G04	D6	TN11_1	89	1.9254	0.0742	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0041-A07	365b-M0153-G07	D6	TN11_1	89	1.5484	0.0842	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0041-B07	365b-M0153-G08	D6	TN11_1	89	1.6544	0.0765	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0041-G04	365b-M0154-B10	D6	TN11_1	89	1.3059	0.0673	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0041-A01	365b-M0154-D06	D6	TN11_1	89	1.5102	0.0762	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0042-C09	365b-M0154-G11	D6	TN11_1	89	1.4167	0.0808	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0042-G08	365b-M0154-H12	D6	TN11_1	89	2.5633	0.1158	512	GSTGVCSPAPYGGEVCYHFAP
365b-R0039-D07	365b-M0151-B11	D6	TN11_1	35	0.3793	0.1155	513	GSHDECWEDIYGGFTCMLMAP
365b-R0039-E04	365b-M0151-F06	D6	TN11_1	35	0.3604	0.109	513	GSHDECWEDIYGGFTCMLMAP
365b-R0039-D03	365b-M0151-G02	D6	TN11_1	35	0.4063	0.1305	513	GSHDECWEDIYGGFTCMLMAP
365b-R0039-H01	365b-M0152-A03	D6	TN11_1	35	0.3844	0.0984	513	GSHDECWEDIYGGFTCMLMAP
365b-R0040-G12	365b-M0152-A10	D6	TN11_1	35	0.5678	0.0885	513	GSHDECWEDIYGGFTCMLMAP
365b-R0040-D07	365b-M0152-E09	D6	TN11_1	35	0.4932	0.0924	513	GSHDECWEDIYGGFTCMLMAP
365b-R0041-E12	365b-M0153-C10	D6	TN11_1	35	0.5638	0.0743	513	GSHDECWEDIYGGFTCMLMAP
365b-R0041-G11	365b-M0153-E02	D6	TN11_1	35	0.6335	0.0818	513	GSHDECWEDIYGGFTCMLMAP
365b-R0041-B09	365b-M0153-F02	D6	TN11_1	35	0.6639	0.0904	513	GSHDECWEDIYGGFTCMLMAP
365b-R0041-H07	365b-M0153-H05	D6	TN11_1	35	0.6628	0.0875	513	GSHDECWEDIYGGFTCMLMAP
365b-R0041-C06	365b-M0153-H10	D6	TN11_1	35	0.6876	0.0913	513	GSHDECWEDIYGGFTCMLMAP
365b-R0041-D06	365b-M0153-H11	D6	TN11_1	35	0.6591	0.0813	513	GSHDECWEDIYGGFTCMLMAP
365b-R0041-D05	365b-M0154-A10	D6	TN11_1	35	0.4842	0.0977	513	GSHDECWEDIYGGFTCMLMAP
365b-R0041-A03	365b-M0154-B12	D6	TN11_1	35	0.6564	0.1336	513	GSHDECWEDIYGGFTCMLMAP
365b-R0041-B02	365b-M0154-C10	D6	TN11_1	35	0.4368	0.0856	513	GSHDECWEDIYGGFTCMLMAP
365b-R0042-B11	365b-M0154-F02	D6	TN11_1	35	0.5976	0.1014	513	GSHDECWEDIYGGFTCMLMAP
365b-R0042-E11	365b-M0154-F05	D6	TN11_1	35	0.4479	0.1031	513	GSHDECWEDIYGGFTCMLMAP
365b-R0042-G11	365b-M0154-F07	D6	TN11_1	35	0.419	0.0963	513	GSHDECWEDIYGGFTCMLMAP
365b-R0042-A09	365b-M0154-G09	D6	TN11_1	35	0.4759	0.1094	513	GSHDECWEDIYGGFTCMLMAP
365b-R0038-A01	365b-M0150-D03	D6	TN11_1	71	0.2353	0.0745	514	GSQHTCFSDPYGGEVCYADAP
365b-R0040-D12	365b-M0152-A07	D6	TN11_1	71	0.3006	0.0729	514	GSQHTCFSDPYGGEVCYADAP
365b-R0040-H12	365b-M0152-A12	D6	TN11_1	71	0.3519	0.0779	514	GSQHTCFSDPYGGEVCYADAP
365b-R0040-C10	365b-M0152-C01	D6	TN11_1	71	0.302	0.0817	514	GSQHTCFSDPYGGEVCYADAP
365b-R0040-E05	365b-M0152-G07	D6	TN11_1	71	0.343	0.0769	514	GSQHTCFSDPYGGEVCYADAP
365b-R0041-A11	365b-M0153-D04	D6	TN11_1	71	0.3026	0.0662	514	GSQHTCFSDPYGGEVCYADAP
365b-R0041-E11	365b-M0153-D11	D6	TN11_1	71	0.232	0.0576	514	GSQHTCFSDPYGGEVCYADAP
365b-R0041-G06	365b-M0154-A03	D6	TN11_1	71	0.3326	0.0747	514	GSQHTCFSDPYGGEVCYADAP
365b-R0041-F05	365b-M0154-A12	D6	TN11_1	71	0.2065	0.0676	514	GSQHTCFSDPYGGEVCYADAP

FIG. 40J

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0041-D04	365b-M0154-B06	D6	TN11_1	71	0.3142	0.0684	514	GSQHTCFSDPYGGEVCYADAP
365b-R0041-H04	365b-M0154-B11	D6	TN11_1	71	0.2721	0.0647	514	GSQHTCFSDPYGGEVCYADAP
365b-R0041-G03	365b-M0154-C07	D6	TN11_1	71	0.3162	0.0633	514	GSQHTCFSDPYGGEVCYADAP
365b-R0041-D02	365b-M0154-C12	D6	TN11_1	71	1.462	0.0983	514	GSQHTCFSDPYGGEVCYADAP
365b-R0041-B01	365b-M0154-D07	D6	TN11_1	71	0.3042	0.0745	514	GSQHTCFSDPYGGEVCYADAP
365b-R0041-G01	365b-M0154-D12	D6	TN11_1	71	0.6479	0.1262	514	GSQHTCFSDPYGGEVCYADAP
365b-R0042-A08	365b-M0154-H06	D6	TN11_1	71	0.3838	0.0836	514	GSQHTCFSDPYGGEVCYADAP
365b-R0042-E08	365b-M0154-H10	D6	TN11_1	71	0.3738	0.081	514	GSQHTCFSDPYGGEVCYADAP
365b-R0042-F08	365b-M0154-H11	D6	TN11_1	71	0.3994	0.0769	514	GSQHTCFSDPYGGEVCYADAP
365b-R0038-D09	365b-M0149-A01	D6	TN11_1	101	1.8491	0.6126	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-E09	365b-M0149-A03	D6	TN11_1	101	1.5976	0.4832	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-F09	365b-M0149-A05	D6	TN11_1	101	1.8468	0.5075	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-E08	365b-M0149-D03	D6	TN11_1	101	1.9946	0.5704	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-F08	365b-M0149-D04	D6	TN11_1	101	1.836	0.5544	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-H08	365b-M0149-D08	D6	TN11_1	101	2.1181	0.5426	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-B07	365b-M0149-E01	D6	TN11_1	101	1.9735	0.5446	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-D07	365b-M0149-E05	D6	TN11_1	101	2.5131	0.6138	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-H07	365b-M0149-F02	D6	TN11_1	101	2.2534	0.5999	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-A06	365b-M0149-F03	D6	TN11_1	101	2.209	0.5862	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-D06	365b-M0149-F12	D6	TN11_1	101	1.5909	0.4574	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-E06	365b-M0149-G01	D6	TN11_1	101	1.995	0.5119	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-G06	365b-M0149-G04	D6	TN11_1	101	2.0748	0.6731	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-B05	365b-M0149-G12	D6	TN11_1	101	1.7593	0.527	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-C05	365b-M0149-H01	D6	TN11_1	101	1.8654	0.596	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-D05	365b-M0149-H02	D6	TN11_1	101	2.0427	0.495	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-H05	365b-M0149-H12	D6	TN11_1	101	1.3774	0.4206	515	GSWEVCENSNYGGQICYWFAP
365b-R0039-H07	365b-M0151-C11	D6	TN11_1	101	0.7023	0.1273	515	GSWEVCENSNYGGQICYWFAP
365b-R0038-D04	365b-M0150-A05	D6	TN11_1	38	1.1997	0.1663	516	GSHEMCWSDVWGGLTCMTMAP
365b-R0038-D03	365b-M0150-B09	D6	TN11_1	38	1.1861	0.1611	516	GSHEMCWSDVWGGLTCMTMAP
365b-R0038-H03	365b-M0150-C02	D6	TN11_1	38	1.1904	0.1652	516	GSHEMCWSDVWGGLTCMTMAP
365b-R0038-A02	365b-M0150-C03	D6	TN11_1	38	1.245	0.1621	516	GSHEMCWSDVWGGLTCMTMAP
365b-R0038-G02	365b-M0150-D01	D6	TN11_1	38	1.0877	0.1439	516	GSHEMCWSDVWGGLTCMTMAP
365b-R0039-C12	365b-M0150-E08	D6	TN11_1	38	0.7125	0.1752	516	GSHEMCWSDVWGGLTCMTMAP
365b-R0039-F10	365b-M0150-H07	D6	TN11_1	38	1.1403	0.1406	516	GSHEMCWSDVWGGLTCMTMAP
365b-R0039-A07	365b-M0151-B06	D6	TN11_1	38	1.3122	0.1395	516	GSHEMCWSDVWGGLTCMTMAP
365b-R0039-H02	365b-M0151-H05	D6	TN11_1	38	1.4814	0.1522	516	GSHEMCWSDVWGGLTCMTMAP
365b-R0039-C01	365b-M0151-H08	D6	TN11_1	38	1.5302	0.1464	516	GSHEMCWSDVWGGLTCMTMAP
365b-R0040-B04	365b-M0152-H03	D6	TN11_1	38	2.372	0.1233	516	GSHEMCWSDVWGGLTCMTMAP
365b-R0040-G03	365b-M0153-A09	D6	TN11_1	38	1.9306	0.1071	516	GSHEMCWSDVWGGLTCMTMAP

FIG. 40K

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0040-C01	365b-M0153-B11	D6	TN11_1	38	2.1487	0.0973	516	GSHEMCWSDVWGGLTCMTMAP
365b-R0041-G02	365b-M0154-D04	D6	TN11_1	38	1.6258	0.1382	516	GSHEMCWSDVWGGLTCMTMAP
365b-R0042-H10	365b-M0154-G08	D6	TN11_1	38	1.4378	0.1229	516	GSHEMCWSDVWGGLTCMTMAP
365b-R0038-F03	365b-M0150-B12	D6	TN11_1	46	0.4959	0.0725	517	GSLSLCKFFGDGSYYCEPPAP
365b-R0039-B11	365b-M0150-F10	D6	TN11_1	46	0.4515	0.0906	517	GSLSLCKFFGDGSYYCEPPAP
365b-R0039-B08	365b-M0151-A08	D6	TN11_1	46	0.678	0.0802	517	GSLSLCKFFGDGSYYCEPPAP
365b-R0039-A06	365b-M0151-C12	D6	TN11_1	46	0.7294	0.1096	517	GSLSLCKFFGDGSYYCEPPAP
365b-R0039-H04	365b-M0151-F09	D6	TN11_1	46	0.4237	0.0844	517	GSLSLCKFFGDGSYYCEPPAP
365b-R0039-B03	365b-M0151-F12	D6	TN11_1	46	0.8396	0.1244	517	GSLSLCKFFGDGSYYCEPPAP
365b-R0040-H11	365b-M0152-B10	D6	TN11_1	46	1.1946	0.0658	517	GSLSLCKFFGDGSYYCEPPAP
365b-R0040-B09	365b-M0152-C08	D6	TN11_1	46	1.2395	0.0698	517	GSLSLCKFFGDGSYYCEPPAP
365b-R0040-C09	365b-M0152-C10	D6	TN11_1	46	1.192	0.0719	517	GSLSLCKFFGDGSYYCEPPAP
365b-R0040-E08	365b-M0152-E01	D6	TN11_1	46	1.025	0.0748	517	GSLSLCKFFGDGSYYCEPPAP
365b-R0041-G07	365b-M0153-H04	D6	TN11_1	46	1.6178	0.0789	517	GSLSLCKFFGDGSYYCEPPAP
365b-R0041-F06	365b-M0154-A02	D6	TN11_1	46	0.9957	0.0916	517	GSLSLCKFFGDGSYYCEPPAP
365b-R0041-C03	365b-M0154-C02	D6	TN11_1	46	1.473	0.0871	517	GSLSLCKFFGDGSYYCEPPAP
365b-R0041-E01	365b-M0154-D10	D6	TN11_1	46	1.0247	0.0746	517	GSLSLCKFFGDGSYYCEPPAP
365b-R0039-D10	365b-M0150-H04	D6	TN11_1	94	0.3049	0.0938	518	GSTRFCEPYQWGGEVCYWKAP
365b-R0039-H10	365b-M0150-H09	D6	TN11_1	94	0.2777	0.0869	518	GSTRFCEPYQWGGEVCYWKAP
365b-R0039-D06	365b-M0151-D05	D6	TN11_1	94	0.2509	0.0733	518	GSTRFCEPYQWGGEVCYWKAP
365b-R0039-G06	365b-M0151-D08	D6	TN11_1	94	0.2476	0.0781	518	GSTRFCEPYQWGGEVCYWKAP
365b-R0039-B05	365b-M0151-E03	D6	TN11_1	94	0.2506	0.0829	518	GSTRFCEPYQWGGEVCYWKAP
365b-R0039-D05	365b-M0151-E06	D6	TN11_1	94	0.2639	0.0824	518	GSTRFCEPYQWGGEVCYWKAP
365b-R0040-D10	365b-M0152-C02	D6	TN11_1	94	0.5991	0.088	518	GSTRFCEPYQWGGEVCYWKAP
365b-R0040-H01	365b-M0153-C05	D6	TN11_1	94	0.5008	0.0714	518	GSTRFCEPYQWGGEVCYWKAP
365b-R0041-D11	365b-M0153-D10	D6	TN11_1	94	0.4261	0.0673	518	GSTRFCEPYQWGGEVCYWKAP
365b-R0041-H02	365b-M0154-D05	D6	TN11_1	94	0.4419	0.0878	518	GSTRFCEPYQWGGEVCYWKAP
365b-R0042-A10	365b-M0154-F10	D6	TN11_1	94	0.4133	0.0881	518	GSTRFCEPYQWGGEVCYWKAP
365b-R0042-B10	365b-M0154-F11	D6	TN11_1	94	0.4647	0.0943	518	GSTRFCEPYQWGGEVCYWKAP
365b-R0042-C10	365b-M0154-F12	D6	TN11_1	94	1.0342	0.1771	518	GSTRFCEPYQWGGEVCYWKAP
365b-R0042-B09	365b-M0154-G10	D6	TN11_1	94	0.4678	0.0806	518	GSTRFCEPYQWGGEVCYWKAP
365b-R0035-B07	365b-M0144-A02	VEGF	TN11_1	29	0.361	0.0863	519	GSFSTCATFPWTTKFCSNMAP
365b-R0035-E05	365b-M0144-D02	VEGF	TN11_1	29	0.6453	0.1524	519	GSFSTCATFPWTTKFCSNMAP
365b-R0036-C10	365b-M0145-D12	VEGF	TN11_1	29	0.2781	0.0843	519	GSFSTCATFPWTTKFCSNMAP
365b-R0036-B07	365b-M0145-H05	VEGF	TN11_1	29	0.4571	0.0953	519	GSFSTCATFPWTTKFCSNMAP
365b-R0036-H03	365b-M0146-F02	VEGF	TN11_1	29	0.4041	0.0894	519	GSFSTCATFPWTTKFCSNMAP
365b-R0036-G02	365b-M0146-F12	VEGF	TN11_1	29	0.4657	0.1055	519	GSFSTCATFPWTTKFCSNMAP
365b-R0037-B11	365b-M0147-A09	VEGF	TN11_1	29	0.34	0.0773	519	GSFSTCATFPWTTKFCSNMAP
365b-R0037-B10	365b-M0147-C05	VEGF	TN11_1	29	0.3593	0.073	519	GSFSTCATFPWTTKFCSNMAP

FIG. 40L

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0037-E08	365b-M0147-F03	VEGF	TN11_1	29	0.5011	0.0889	519	GSFSTCATFPWTTKFCSNMAP
365b-R0037-B05	365b-M0147-H12	VEGF	TN11_1	29	0.6314	0.1435	519	GSFSTCATFPWTTKFCSNMAP
365b-R0037-G04	365b-M0148-B08	VEGF	TN11_1	29	0.3203	0.066	519	GSFSTCATFPWTTKFCSNMAP
365b-R0037-G02	365b-M0148-D07	VEGF	TN11_1	29	0.3418	0.0738	519	GSFSTCATFPWTTKFCSNMAP
365b-R0038-F04	365b-M0150-A08	D6	TN11_1	37	1.9756	0.1127	520	GSHELCFEGTYGGEVCFSMAP
365b-R0039-E07	365b-M0151-C02	D6	TN11_1	37	2.3831	0.0896	520	GSHELCFEGTYGGEVCFSMAP
365b-R0039-C05	365b-M0151-E04	D6	TN11_1	37	2.3037	0.0976	520	GSHELCFEGTYGGEVCFSMAP
365b-R0039-G04	365b-M0151-F08	D6	TN11_1	37	1.6606	0.0878	520	GSHELCFEGTYGGEVCFSMAP
365b-R0040-F12	365b-M0152-A09	D6	TN11_1	37	2.3067	0.0859	520	GSHELCFEGTYGGEVCFSMAP
365b-R0040-E10	365b-M0152-C03	D6	TN11_1	37	2.9164	0.0769	520	GSHELCFEGTYGGEVCFSMAP
365b-R0040-G09	365b-M0152-D05	D6	TN11_1	37	2.7444	0.0832	520	GSHELCFEGTYGGEVCFSMAP
365b-R0040-H02	365b-M0153-B08	D6	TN11_1	37	2.5788	0.0724	520	GSHELCFEGTYGGEVCFSMAP
365b-R0041-G10	365b-M0153-E11	D6	TN11_1	37	2.4376	0.0691	520	GSHELCFEGTYGGEVCFSMAP
365b-R0041-C05	365b-M0154-A09	D6	TN11_1	37	1.9559	0.0773	520	GSHELCFEGTYGGEVCFSMAP
365b-R0041-F01	365b-M0154-D11	D6	TN11_1	37	1.8989	0.079	520	GSHELCFEGTYGGEVCFSMAP
365b-R0042-F10	365b-M0154-G06	D6	TN11_1	37	2.7201	0.095	520	GSHELCFEGTYGGEVCFSMAP
365b-R0035-D09	365b-M0143-D01	VEGF	TN11_1	50	1.733	0.5358	521	GSLWHCFNDVYGGENCIPFAP
365b-R0035-F07	365b-M0144-A09	VEGF	TN11_1	50	0.8158	0.0684	521	GSLWHCFNDVYGGENCIPFAP
365b-R0035-B03	365b-M0144-F02	VEGF	TN11_1	50	2.2239	0.1728	521	GSLWHCFNDVYGGENCIPFAP
365b-R0035-H03	365b-M0144-F12	VEGF	TN11_1	50	1.5655	0.1083	521	GSLWHCFNDVYGGENCIPFAP
365b-R0036-F08	365b-M0145-G12	VEGF	TN11_1	50	1.8613	0.1377	521	GSLWHCFNDVYGGENCIPFAP
365b-R0036-G05	365b-M0146-C08	VEGF	TN11_1	50	1.3691	0.0703	521	GSLWHCFNDVYGGENCIPFAP
365b-R0037-H12	365b-M0147-A02	VEGF	TN11_1	50	1.0434	0.0709	521	GSLWHCFNDVYGGENCIPFAP
365b-R0037-F10	365b-M0147-D03	VEGF	TN11_1	50	2.016	0.0703	521	GSLWHCFNDVYGGENCIPFAP
365b-R0037-G10	365b-M0147-D04	VEGF	TN11_1	50	1.8402	0.0789	521	GSLWHCFNDVYGGENCIPFAP
365b-R0037-F03	365b-M0148-C05	VEGF	TN11_1	50	1.5701	0.0641	521	GSLWHCFNDVYGGENCIPFAP
365b-R0037-H03	365b-M0148-C07	VEGF	TN11_1	50	1.5274	0.0583	521	GSLWHCFNDVYGGENCIPFAP
365b-R0038-B12	365b-M0148-E11	VEGF	TN11_1	50	1.3707	0.0721	521	GSLWHCFNDVYGGENCIPFAP
365b-R0035-C12	365b-M0138-C11	BEAD	TN11_1	74	0.5174	0.0736	522	GSQQYCIPAEYGGMECYPFAP
365b-R0035-F12	365b-M0139-A08	BEAD	TN11_1	74	0.4199	0.0686	522	GSQQYCIPAEYGGMECYPFAP
365b-R0038-B02	365b-M0150-C05	D6	TN11_1	74	0.3112	0.0811	522	GSQQYCIPAEYGGMECYPFAP
365b-R0036-E12	365b-M0145-B07	VEGF	TN11_1	74	0.4441	0.0732	522	GSQQYCIPAEYGGMECYPFAP
365b-R0036-A07	365b-M0145-H04	VEGF	TN11_1	74	0.6027	0.0806	522	GSQQYCIPAEYGGMECYPFAP
365b-R0036-D07	365b-M0145-H08	VEGF	TN11_1	74	0.3694	0.0787	522	GSQQYCIPAEYGGMECYPFAP
365b-R0036-D06	365b-M0146-A12	VEGF	TN11_1	74	0.3704	0.0719	522	GSQQYCIPAEYGGMECYPFAP
365b-R0036-B01	365b-M0146-G05	VEGF	TN11_1	74	0.4217	0.0779	522	GSQQYCIPAEYGGMECYPFAP
365b-R0037-A09	365b-M0147-D08	VEGF	TN11_1	74	0.4864	0.0607	522	GSQQYCIPAEYGGMECYPFAP
365b-R0037-E02	365b-M0148-D03	VEGF	TN11_1	74	0.566	0.0585	522	GSQQYCIPAEYGGMECYPFAP

FIG. 40M

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0038-C12	365b-M0148-E12	VEGF	TN11_1	74	0.5886	0.0915	522	GSQQYCIPAEYGGMECYPFAP
365b-R0038-B03	365b-M0150-B06	D6	TN11_1	42	0.327	0.0874	523	GSIQNCWKYEFGGIVCMDMAP
365b-R0038-F02	365b-M0150-C12	D6	TN11_1	42	0.5797	0.1641	523	GSIQNCWKYEFGGIVCMDMAP
365b-R0039-H12	365b-M0150-F07	D6	TN11_1	42	0.289	0.0921	523	GSIQNCWKYEFGGIVCMDMAP
365b-R0039-F07	365b-M0151-C07	D6	TN11_1	42	0.2353	0.068	523	GSIQNCWKYEFGGIVCMDMAP
365b-R0040-D05	365b-M0152-G06	D6	TN11_1	42	0.5838	0.0913	523	GSIQNCWKYEFGGIVCMDMAP
365b-R0040-E04	365b-M0152-H06	D6	TN11_1	42	0.7246	0.0865	523	GSIQNCWKYEFGGIVCMDMAP
365b-R0041-H09	365b-M0153-F09	D6	TN11_1	42	0.5265	0.0703	523	GSIQNCWKYEFGGIVCMDMAP
365b-R0041-C07	365b-M0153-G09	D6	TN11_1	42	0.5339	0.0785	523	GSIQNCWKYEFGGIVCMDMAP
365b-R0042-G12	365b-M0154-E11	D6	TN11_1	42	0.4407	0.0815	523	GSIQNCWKYEFGGIVCMDMAP
365b-R0038-B08	365b-M0149-C03	D6	TN11_1	99	1.756	0.4217	524	GSVSGCKEFWNSSGRCFTHAP
365b-R0038-G03	365b-M0150-C01	D6	TN11_1	99	0.6011	0.0813	524	GSVSGCKEFWNSSGRCFTHAP
365b-R0039-A10	365b-M0150-G10	D6	TN11_1	99	0.4631	0.0868	524	GSVSGCKEFWNSSGRCFTHAP
365b-R0039-B04	365b-M0151-F02	D6	TN11_1	99	0.623	0.0871	524	GSVSGCKEFWNSSGRCFTHAP
365b-R0039-D01	365b-M0151-H09	D6	TN11_1	99	0.5763	0.0834	524	GSVSGCKEFWNSSGRCFTHAP
365b-R0040-E09	365b-M0152-D01	D6	TN11_1	99	0.8589	0.077	524	GSVSGCKEFWNSSGRCFTHAP
365b-R0040-H08	365b-M0152-E04	D6	TN11_1	99	0.9011	0.0744	524	GSVSGCKEFWNSSGRCFTHAP
365b-R0040-B05	365b-M0152-G03	D6	TN11_1	99	0.817	0.0827	524	GSVSGCKEFWNSSGRCFTHAP
365b-R0040-A03	365b-M0152-H11	D6	TN11_1	99	0.9478	0.0765	524	GSVSGCKEFWNSSGRCFTHAP
365b-R0039-D04	365b-M0151-F05	D6	TN11_1	48	0.2971	0.0911	525	GSLWECRGDFYGGEVCFNYAP
365b-R0039-E01	365b-M0151-H10	D6	TN11_1	48	0.3412	0.0976	525	GSLWECRGDFYGGEVCFNYAP
365b-R0040-B12	365b-M0152-A05	D6	TN11_1	48	0.4593	0.0879	525	GSLWECRGDFYGGEVCFNYAP
365b-R0040-B07	365b-M0152-E06	D6	TN11_1	48	0.4377	0.0709	525	GSLWECRGDFYGGEVCFNYAP
365b-R0040-D06	365b-M0152-F09	D6	TN11_1	48	0.5121	0.0877	525	GSLWECRGDFYGGEVCFNYAP
365b-R0040-F05	365b-M0152-G08	D6	TN11_1	48	0.5093	0.0912	525	GSLWECRGDFYGGEVCFNYAP
365b-R0041-H01	365b-M0154-E01	D6	TN11_1	48	0.4302	0.0823	525	GSLWECRGDFYGGEVCFNYAP
365b-R0042-H11	365b-M0154-F09	D6	TN11_1	48	0.4239	0.0908	525	GSLWECRGDFYGGEVCFNYAP
365b-R0039-A11	365b-M0150-F08	D6	TN11_1	54	0.8834	0.1009	526	GSNLICYDYYYGGQDCYHDAP
365b-R0039-E09	365b-M0151-A03	D6	TN11_1	54	1.3328	0.0974	526	GSNLICYDYYYGGQDCYHDAP
365b-R0041-G09	365b-M0153-F08	D6	TN11_1	54	1.6202	0.0872	526	GSNLICYDYYYGGQDCYHDAP
365b-R0041-D01	365b-M0154-D09	D6	TN11_1	54	1.5309	0.1028	526	GSNLICYDYYYGGQDCYHDAP
365b-R0035-E03	365b-M0144-F06	VEGF	TN11_1	54	1.5585	0.0884	526	GSNLICYDYYYGGQDCYHDAP
365b-R0036-E09	365b-M0145-F09	VEGF	TN11_1	54	1.5586	0.0877	526	GSNLICYDYYYGGQDCYHDAP
365b-R0036-C01	365b-M0146-G07	VEGF	TN11_1	54	1.6044	0.1008	526	GSNLICYDYYYGGQDCYHDAP
365b-R0038-H12	365b-M0148-F10	VEGF	TN11_1	54	1.5022	0.0732	526	GSNLICYDYYYGGQDCYHDAP
365b-R0038-F06	365b-M0149-G03	D6	TN11_1	19	1.7445	0.5281	527	GSEGTCEEYQYGGIVCWWGAP
365b-R0040-D08	365b-M0152-D12	D6	TN11_1	19	0.9818	0.1252	527	GSEGTCEEYQYGGIVCWWGAP
365b-R0040-G08	365b-M0152-E03	D6	TN11_1	19	0.7051	0.0785	527	GSEGTCEEYQYGGIVCWWGAP
365b-R0040-H07	365b-M0152-F04	D6	TN11_1	19	0.6101	0.0803	527	GSEGTCEEYQYGGIVCWWGAP

FIG. 40N

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0040-G04	365b-M0152-H08	D6	TN11_1	19	0.7712	0.08	527	GSEGTCEEYQYGGIVCWWGAP
365b-R0041-D03	365b-M0154-C04	D6	TN11_1	19	0.6058	0.1002	527	GSEGTCEEYQYGGIVCWWGAP
365b-R0042-E09	365b-M0154-H02	D6	TN11_1	19	0.6837	0.0905	527	GSEGTCEEYQYGGIVCWWGAP
365b-R0036-A11	365b-M0145-C03	VEGF	TN11_1	2	0.611	0.1548	528	PGSGDCDWYYEWLFDCPLNAP
365b-R0036-E11	365b-M0145-C09	VEGF	TN11_1	2	0.3465	0.0972	528	PGSGDCDWYYEWLFDCPLNAP
365b-R0036-A05	365b-M0146-B07	VEGF	TN11_1	2	0.3458	0.0885	528	PGSGDCDWYYEWLFDCPLNAP
365b-R0037-F11	365b-M0147-B11	VEGF	TN11_1	2	0.4386	0.0961	528	PGSGDCDWYYEWLFDCPLNAP
365b-R0037-C09	365b-M0147-E01	VEGF	TN11_1	2	0.3631	0.0863	528	PGSGDCDWYYEWLFDCPLNAP
365b-R0037-D09	365b-M0147-E02	VEGF	TN11_1	2	0.5282	0.1032	528	PGSGDCDWYYEWLFDCPLNAP
365b-R0037-H04	365b-M0148-B09	VEGF	TN11_1	2	0.405	0.0791	528	PGSGDCDWYYEWLFDCPLNAP
365b-R0036-H08	365b-M0145-H03	VEGF	TN11_1	16	0.3653	0.0933	529	GSDQMCFNESFGGQICFYSAP
365b-R0036-D05	365b-M0146-C02	VEGF	TN11_1	16	0.3654	0.1159	529	GSDQMCFNESFGGQICFYSAP
365b-R0036-C03	365b-M0146-E03	VEGF	TN11_1	16	0.3861	0.0733	529	GSDQMCFNESFGGQICFYSAP
365b-R0037-H11	365b-M0147-C01	VEGF	TN11_1	16	0.3192	0.0789	529	GSDQMCFNESFGGQICFYSAP
365b-R0037-A08	365b-M0147-E11	VEGF	TN11_1	16	0.3407	0.0832	529	GSDQMCFNESFGGQICFYSAP
365b-R0038-G12	365b-M0148-F07	VEGF	TN11_1	16	0.2767	0.0678	529	GSDQMCFNESFGGQICFYSAP
365b-R0039-G10	365b-M0150-H08	D6	TN11_1	32	1.7728	0.0824	530	GSGMACMSDPYGGQVCYAIAP
365b-R0040-F02	365b-M0153-B05	D6	TN11_1	32	2.9076	0.0665	530	GSGMACMSDPYGGQVCYAIAP
365b-R0041-A10	365b-M0153-E04	D6	TN11_1	32	3	0.0714	530	GSGMACMSDPYGGQVCYAIAP
365b-R0041-B08	365b-M0153-F11	D6	TN11_1	32	2.7626	0.0815	530	GSGMACMSDPYGGQVCYAIAP
365b-R0042-H09	365b-M0154-H05	D6	TN11_1	32	3	0.0943	530	GSGMACMSDPYGGQVCYAIAP
365b-R0035-D07	365b-M0144-A04	VEGF	TN11_1	20	0.2226	0.066	531	GSELTCWDSAYGGNECFFFAP
365b-R0036-B09	365b-M0145-F03	VEGF	TN11_1	39	0.6403	0.0933	532	GSHFLCVKEMEGGETCYYSAP
365b-R0036-B04	365b-M0146-D02	VEGF	TN11_1	39	0.4706	0.0808	532	GSHFLCVKEMEGGETCYYSAP
365b-R0037-B12	365b-M0146-H06	VEGF	TN11_1	39	0.4881	0.0833	532	GSHFLCVKEMEGGETCYYSAP
365b-R0037-E05	365b-M0148-A04	VEGF	TN11_1	39	0.559	0.0741	532	GSHFLCVKEMEGGETCYYSAP
365b-R0035-D12	365b-M0138-D08	BEAD	TN11_1	100	0.6286	0.1132	533	GSWEICFAGPYGGSWCIPEAP
365b-R0035-C11	365b-M0140-B05	BEAD	TN11_1	100	0.6648	0.1347	533	GSWEICFAGPYGGSWCIPEAP
365b-R0035-F11	365b-M0141-A08	BEAD	TN11_1	100	0.3904	0.0998	533	GSWEICFAGPYGGSWCIPEAP
365b-R0035-H11	365b-M0141-D03	BEAD	TN11_1	100	0.7545	0.1166	533	GSWEICFAGPYGGSWCIPEAP
365b-R0035-E12	365b-M0138-F04	BEAD	TN11_1	6	1.9751	0.118	534	GSAQYCMESYYGGFTCVTLAP
365b-R0039-G01	365b-M0151-H12	D6	TN11_1	6	1.463	0.1596	534	GSAQYCMESYYGGFTCVTLAP
365b-R0036-F04	365b-M0146-D08	VEGF	TN11_1	6	2.1108	0.0817	534	GSAQYCMESYYGGFTCVTLAP
365b-R0036-D08	365b-M0145-G09	VEGF	TN11_1	28	0.9584	0.0874	535	GSFNACGFEEGLEWMCYRQAP
365b-R0036-F02	365b-M0146-F11	VEGF	TN11_1	28	0.9738	0.0787	535	GSFNACGFEEGLEWMCYRQAP
365b-R0037-E09	365b-M0147-E03	VEGF	TN11_1	28	1.2937	0.0703	535	GSFNACGFEEGLEWMCYRQAP
365b-R0036-C08	365b-M0145-G07	VEGF	TN11_1	44	0.755	0.1531	536	GSKLLCQYWEHEWWPCMNEAP
365b-R0037-A12	365b-M0146-H05	VEGF	TN11_1	44	0.7645	0.1577	536	GSKLLCQYWEHEWWPCMNEAP
365b-R0037-H05	365b-M0148-A08	VEGF	TN11_1	44	0.496	0.1162	536	GSKLLCQYWEHEWWPCMNEAP

FIG. 40O

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0036-C12	365b-M0145-B04	VEGF	TN11_1	55	0.4509	0.0959	537	GSNMNCGAEQGLESLCGWRAP
365b-R0036-G11	365b-M0145-D02	VEGF	TN11_1	55	0.5252	0.0723	537	GSNMNCGAEQGLESLCGWRAP
365b-R0038-H11	365b-M0148-G09	VEGF	TN11_1	55	0.3248	0.0729	537	GSNMNCGAEQGLESLCGWRAP
365b-R0035-A02	365b-M0144-G01	VEGF	TN11_1	62	0.225	0.07	538	GSNWVCLSEGYGGMTCYPSAP
365b-R0036-B02	365b-M0146-F06	VEGF	TN11_1	62	0.2585	0.0779	538	GSNWVCLSEGYGGMTCYPSAP
365b-R0038-G11	365b-M0148-G06	VEGF	TN11_1	62	0.2367	0.0757	538	GSNWVCLSEGYGGMTCYPSAP
365b-R0037-G09	365b-M0147-E09	VEGF	TN11_1	68	0.5271	0.0723	539	GSPSTCIYSSGLIVDCGLLAP
365b-R0037-C06	365b-M0147-G12	VEGF	TN11_1	68	1.1897	0.152	539	GSPSTCIYSSGLIVDCGLLAP
365b-R0037-A01	365b-M0148-D11	VEGF	TN11_1	68	0.5155	0.0755	539	GSPSTCIYSSGLIVDCGLLAP
365b-R0040-F03	365b-M0153-A07	D6	TN11_1	92	0.2871	0.0644	540	GSTQHCWPSEYGGMTCVPAAP
365b-R0035-E02	365b-M0144-G12	VEGF	TN11_1	92	0.3927	0.0867	540	GSTQHCWPSEYGGMTCVPAAP
365b-R0036-A08	365b-M0145-G05	VEGF	TN11_1	92	0.3092	0.0805	540	GSTQHCWPSEYGGMTCVPAAP
365b-R0035-B12	365b-M0138-C06	BEAD	TN11_1	96	1.1917	0.0989	541	GSTWACEEISAHHTKCTYQAP
365b-R0035-D11	365b-M0140-B09	BEAD	TN11_1	96	1.3917	0.0783	541	GSTWACEEISAHHTKCTYQAP
365b-R0037-C01	365b-M0148-E01	VEGF	TN11_1	96	1.6726	0.0628	541	GSTWACEEISAHHTKCTYQAP
365b-R0035-A12	365b-M0138-A09	BEAD	TN11_1	110	0.9799	0.0778	542	GSYTECWEEDYGGVTCFNVAP
365b-R0035-B11	365b-M0140-A04	BEAD	TN11_1	110	1.334	0.1179	542	GSYTECWEEDYGGVTCFNVAP
365b-R0035-E11	365b-M0140-E06	BEAD	TN11_1	110	1.232	0.1044	542	GSYTECWEEDYGGVTCFNVAP
365b-R0038-C03	365b-M0150-B08	D6	TN11_1	12	1.2247	0.1099	543	GSDKFCFKDPWGGVTCYHLAP
365b-R0040-E11	365b-M0152-B06	D6	TN11_1	12	1.8704	0.0937	543	GSDKFCFKDPWGGVTCYHLAP
365b-R0041-H10	365b-M0153-E12	D6	TN11_1	14	0.6225	0.0981	544	GSDLDCWTDPYGGEVCYWHAP
365b-R0042-F11	365b-M0154-F06	D6	TN11_1	14	0.547	0.1087	544	GSDLDCWTDPYGGEVCYWHAP
365b-R0035-B10	365b-M0142-F03	BEAD	TN11_1	18	0.4919	0.1192	545	GSDYECYNAWFGYFDCPGDAP
365b-R0037-B04	365b-M0148-A10	VEGF	TN11_1	18	0.3521	0.0858	545	GSDYECYNAWFGYFDCPGDAP
365b-R0037-F04	365b-M0148-B07	VEGF	TN11_1	47	0.1962	0.0611	546	GSLSTCWKQAYGGVWCVDHAP
365b-R0038-E10	365b-M0148-H04	VEGF	TN11_1	47	0.3368	0.0737	546	GSLSTCWKQAYGGVWCVDHAP
365b-R0040-C11	365b-M0152-B03	D6	TN11_1	52	0.3635	0.1078	547	GSMQLCRQWAYGGQTCYWYAP
365b-R0040-A06	365b-M0152-F06	D6	TN11_1	52	0.4342	0.1046	547	GSMQLCRQWAYGGQTCYWYAP
365b-R0037-E12	365b-M0146-H10	VEGF	TN11_1	57	0.314	0.081	548	GSNQLCITAQFGGQDCYPIAP
365b-R0037-C04	365b-M0148-B01	VEGF	TN11_1	57	0.4575	0.0632	548	GSNQLCITAQFGGQDCYPIAP
365b-R0035-F05	365b-M0144-D03	VEGF	TN11_1	66	0.5058	0.1038	549	GSPMWCAPWPWGGEHCVGSAP
365b-R0037-E04	365b-M0148-B05	VEGF	TN11_1	66	0.4563	0.087	549	GSPMWCAPWPWGGEHCVGSAP
365b-R0037-A03	365b-M0148-B10	VEGF	TN11_1	72	0.2712	0.0571	550	GSQLLCGSEPELAWMCEQGAP
365b-R0038-C09	365b-M0148-H12	VEGF	TN11_1	72	0.3283	0.0999	550	GSQLLCGSEPELAWMCEQGAP
365b-R0036-H09	365b-M0145-F12	VEGF	TN11_1	75	0.596	0.1475	551	GSQRQCWDDYFGGIICYVIDA
365b-R0036-F07	365b-M0145-H11	VEGF	TN11_1	75	0.4555	0.1338	551	GSQRQCWDDYFGGIICYVIDA
365b-R0035-A10	365b-M0141-F09	BEAD	TN11_1	77	0.9138	0.1193	552	GSREVCWQDFFGGMVCVRDAP
365b-R0037-A02	365b-M0148-C08	VEGF	TN11_1	77	0.8702	0.0742	552	GSREVCWQDFFGGMVCVRDAP
365b-R0035-G06	365b-M0144-C04	VEGF	TN11_1	81	0.8139	0.0915	553	GSSQWCQRDFWGGDICINLAP

FIG. 40P

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0036-G10	365b-M0145-E11	VEGF	TN11_1	81	0.7672	0.0836	553	GSSQWCQRDFWGGDICINLAP
365b-R0036-H01	365b-M0146-H03	VEGF	TN11_1	86	1.4275	0.0872	554	GSTDICWPGSYGGEICIPRAP
365b-R0037-B06	365b-M0147-G11	VEGF	TN11_1	86	1.3266	0.0796	554	GSTDICWPGSYGGEICIPRAP
365b-R0035-H01	365b-M0145-A12	VEGF	TN11_1	88	0.4332	0.061	555	GSTEYCWPEPHGGQACILLAP
365b-R0038-H10	365b-M0148-H08	VEGF	TN11_1	88	0.5378	0.0659	555	GSTEYCWPEPHGGQACILLAP
365b-R0036-D09	365b-M0145-F06	VEGF	TN11_1	90	0.7089	0.0958	556	GSTHFCIDYIWGGKHCIADAP
365b-R0037-H10	365b-M0147-D05	VEGF	TN11_1	90	0.6017	0.0943	556	GSTHFCIDYIWGGKHCIADAP
365b-R0036-H12	365b-M0145-C01	VEGF	TN11_1	91	1.7304	0.0879	557	GSTMMCWPAHYGGDECFALAP
365b-R0036-F03	365b-M0146-E08	VEGF	TN11_1	91	1.6849	0.0856	557	GSTMMCWPAHYGGDECFALAP
365b-R0038-D12	365b-M0148-F02	VEGF	TN11_1	93	0.4764	0.0691	558	GSTQMCFPHQYGGQSCYSFAP
365b-R0038-E12	365b-M0148-F03	VEGF	TN11_1	93	0.222	0.0601	558	GSTQMCFPHQYGGQSCYSFAP
365b-R0035-H02	365b-M0144-H04	VEGF	TN11_1	98	0.6085	0.08	559	GSVEGCWVEDQTSPFCWIDAP
365b-R0037-H09	365b-M0147-E10	VEGF	TN11_1	98	0.6242	0.0714	559	GSVEGCWVEDQTSPFCWIDAP
365b-R0037-D03	365b-M0148-C03	VEGF	TN11_1	104	0.2375	0.0692	560	GSWYTCWDEASGGQVCYQLAP
365b-R0037-D02	365b-M0148-D02	VEGF	TN11_1	104	0.2152	0.0675	560	GSWYTCWDEASGGQVCYQLAP
365b-R0039-G08	365b-M0151-B03	D6	TN11_1	107	1.1143	0.0857	561	GSYNLCYPEIYGGQVCYRMAP
365b-R0040-E03	365b-M0153-A06	D6	TN11_1	107	1.929	0.0807	561	GSYNLCYPEIYGGQVCYRMAP
365b-R0040-F11	365b-M0152-B07	D6	TN11_1	109	0.3468	0.0946	562	GSYSQCFPDPFGGTTCFVSAP
365b-R0041-G05	365b-M0154-B01	D6	TN11_1	109	0.3115	0.0953	562	GSYSQCFPDPFGGTTCFVSAP
365b-R0037-D08	365b-M0147-F02	VEGF	Unknown	114	2.3479	0.0831	563	GSSMQCFNRVSQLVDCETAAP
365b-R0037-G06	365b-M0147-H08	VEGF	Unknown	114	2.2969	0.0746	563	GSSMQCFNRVSQLVDCETAAP
365b-R0035-A01	365b-M0144-H06	VEGF	TN11_1	117	2.0129	0.078	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0036-H10	365b-M0145-E12	VEGF	TN11_1	117	2.0751	0.0759	505	GSNMVCMDDSYGGTTCYSMAP
365b-R0038-A03	365b-M0150-A11	D6	TN11_1	4	0.39	0.093	564	GSAKTCRSYWAQSGYCYEYAP
365b-R0036-E04	365b-M0146-D06	VEGF	TN11_1	5	1.3443	0.0896	565	GSAQTCWDYVYGGFFCLNTAP
365b-R0038-F12	365b-M0148-F05	VEGF	TN11_1	7	2.7974	0.092	566	GSAWDCFQQDTYSTHCHWRAP
365b-R0036-G12	365b-M0145-B11	VEGF	TN11_1	8	0.2393	0.075	567	GSAWNCEMLDPWSTQCSWDAP
365b-R0035-A05	365b-M0144-C06	VEGF	TN11_1	9	0.7243	0.0673	568	GSAWVCHPEQEGGTTCYWVAP
365b-R0035-C10	365b-M0142-G03	BEAD	TN11_1	10	1.061	0.0977	569	GSDELCWPQEFGGWVCIQGAP
365b-R0041-E08	365b-M0153-G03	D6	TN11_1	11	2.5657	0.0849	570	GSDFQCFNWEGYPTNCYSNAP
365b-R0038-B10	365b-M0148-G12	VEGF	TN11_1	13	0.4163	0.1096	571	GSDKKCWPSPYGGQICWAVAP
365b-R0037-G01	365b-M0148-E08	VEGF	TN11_1	15	0.2183	0.0603	572	GSDQLCFDQRWGGQVCVFGAP
365b-R0040-C05	365b-M0152-G04	D6	TN11_1	17	1.2634	0.079	573	GSDSGCKEFWNSSDRCYTHAP
365b-R0036-G04	365b-M0146-D11	VEGF	TN11_1	22	0.4866	0.0895	574	GSEWICWSSFFGGETCTPKAP
365b-R0035-G12	365b-M0139-D04	BEAD	TN11_1	23	0.494	0.0978	575	GSEWNCLNNTPYQTTCSWRAP
365b-R0037-A06	365b-M0147-G10	VEGF	TN11_1	24	0.4888	0.1062	576	GSEWRCWPDVFGGQMCFNMAP
365b-R0037-F07	365b-M0147-G05	VEGF	TN11_1	25	0.2435	0.0776	577	GSEYECYPDWYGGEVCVQKAP
365b-R0041-B12	365b-M0153-C07	D6	TN11_1	26	0.6566	0.0648	578	GSFEACWEEAYGGLTCWHDAP
365b-R0041-B11	365b-M0153-D08	D6	TN11_1	27	0.722	0.0691	579	GSFEECMPYRYGGQTCFMIAP

FIG. 40Q

Isolate	Initial Name	Elution	Library	Groups	Target OD	Background OD	SEQ ID NO	Trimmed AA
365b-R0036-C02	365b-M0146-F07	VEGF	TN11_1	30	1.067	0.0902	580	GSFWTCVDTNWHTTECFHSAP
365b-R0037-G05	365b-M0148-A07	VEGF	TN11_1	33	1.7984	0.1973	581	GSGQMCWHGQYGGTICVAMAP
365b-R0037-A05	365b-M0147-H11	VEGF	TN11_1	34	1.1541	0.0944	582	GSGWVCKQQGPHKTECLFMAP
365b-R0040-A02	365b-M0153-A12	D6	TN11_1	36	0.2506	0.0648	583	GSHDECWEDIYGGFTCMPYGS
365b-R0035-G02	365b-M0144-H03	VEGF	TN11_1	40	3	0.085	584	GSHVVCWDDPYGGESCYNTAP
365b-R0041-A09	365b-M0153-F01	D6	TN11_1	41	1.8781	0.1431	585	GSIDICTDSYWGGITCYKFAP
365b-R0036-G06	365b-M0146-B05	VEGF	TN11_1	45	0.3069	0.0815	586	GSKWICVDVKWGGSACYDIAP
365b-R0040-D03	365b-M0153-A03	D6	TN11_1	49	0.6252	0.0746	587	GSLWECRIDYYGGEVCFIDAP
365b-R0035-D05	365b-M0144-D01	VEGF	TN11_1	51	1.4799	0.0967	588	GSLWTCVLSVYGGEDCYNLAP
365b-R0037-H01	365b-M0148-E09	VEGF	TN11_1	53	0.313	0.0698	589	GSMTMCGAEPDLWYMCYGIAP
365b-R0038-H04	365b-M0150-A10	D6	TN11_1	58	0.7672	0.1376	590	GSNQYCMPYDWGGEMCFEVAP
365b-R0037-E01	365b-M0148-E05	VEGF	TN11_1	59	0.443	0.0654	591	GSNVFCSEGPFGGEICYGIAP
365b-R0037-D04	365b-M0148-B02	VEGF	TN11_1	60	0.2309	0.0643	592	GSNWACFIEAMGGWTCAPRPT
365b-R0036-E02	365b-M0146-F09	VEGF	TN11_1	61	0.3077	0.0756	593	GSNWTCFIDSFQGETCYPFAP
365b-R0036-D03	365b-M0146-E04	VEGF	TN11_1	63	0.7171	0.0774	594	GSNWWCHSEAFGGHTCYNAAP
365b-R0037-F09	365b-M0147-E08	VEGF	TN11_1	64	0.5968	0.119	595	GSPCACNNSYGHSDDCDHLAP
365b-R0037-D11	365b-M0147-B08	VEGF	TN11_1	65	0.4696	0.1447	596	GSPGNCKDFWAWSLQCFSFAP
365b-R0037-C10	365b-M0147-C06	VEGF	TN11_1	67	0.3577	0.0604	597	GSPRWCYFSSGIMKDCDILAP
365b-R0035-D02	365b-M0144-G11	VEGF	TN11_1	69	2.2025	0.0767	598	GSPTYCQFHSGVVTLCSMFAP
365b-R0040-B06	365b-M0152-F07	D6	TN11_1	70	1.7832	0.0699	599	GSQEICFNSQYGGQVCFDSAP
365b-R0035-H04	365b-M0144-E09	VEGF	TN11_1	73	1.2428	0.078	600	GSQMICYPHVFGGQDCFPGAP
365b-R0035-C07	365b-M0144-A03	VEGF	TN11_1	76	0.6981	0.0666	601	GSQWTCTELSDVMTHCSYTAP
365b-R0038-F11	365b-M0148-G05	VEGF	TN11_1	78	1.1716	0.0773	602	GSRVNCGAEDDLSFLCMTEAP
365b-R0035-H12	365b-M0139-D09	BEAD	TN11_1	80	0.9186	0.1256	603	GSSGDCIEMYNDWYYCTILAP
365b-R0037-D05	365b-M0148-A03	VEGF	TN11_1	82	0.472	0.0649	604	GSSWECGEFGDTTIQCNWVAP
365b-R0037-C08	365b-M0147-F01	VEGF	TN11_1	83	0.4466	0.0626	605	GSSWQCFSEAPSGATCVPIAP
365b-R0037-B08	365b-M0147-E12	VEGF	TN11_1	84	2.89	0.125	606	GSSWQCVQVDDFHTECSFMAP
365b-R0039-A01	365b-M0151-H06	D6	TN11_1	85	1.6824	0.1451	607	GSSWTCVFYPYGGEVCIPDAP
365b-R0041-A05	365b-M0154-A06	D6	TN11_1	87	2.2968	0.079	608	GSTELCVPYQWGGEVCVAQAP
365b-R0037-A04	365b-M0148-A09	VEGF	TN11_1	95	0.2176	0.0645	609	GSTVYCHNEYFGGQVCFTIAP
365b-R0036-G03	365b-M0146-F01	VEGF	TN11_1	97	1.3477	0.077	610	GSTYGCEYYMPFQHKCSVEAP
365b-R0039-B06	365b-M0151-D01	D6	TN11_1	102	1.4691	0.4212	611	GSWWGCFPYSWGGEICTSIAP
365b-R0038-A09	365b-M0148-H09	VEGF	TN11_1	103	0.9874	0.0755	612	GSWWNCVDTSFHTTQCKYAAP
365b-R0038-B09	365b-M0148-H10	VEGF	TN11_1	105	2.3946	0.0876	613	GSYFMCQDGFWGGQDCFYIAP
365b-R0036-H07	365b-M0146-A05	VEGF	TN11_1	106	0.525	0.0716	614	GSYMWCTESKFGGSTCFNLAP
365b-R0036-F05	365b-M0146-C05	VEGF	TN11_1	115	2.0082	0.0969	529	GSDQMCFNESFGGQICFYSAP
365b-R0036-E05	365b-M0146-C04	VEGF	TN11_1	112	0.5384	0.1227	615	GSGAYSHLLEYHAVCKNVAP
365b-R0036-A01	365b-M0146-G04	VEGF	TN11_1	116	2.1226	0.0756	526	GSNLICYDYYYGGQDCYHDAP
365b-R0035-A06	365b-M0144-B03	VEGF	TN11_1	3	1.4371	0.0816	616	PGSWTCQNYEPWATTCVYDAP

FIG. 40R